



Prof. Chamindalal Sujeewa Lewangamage

Ph.D. (Tokyo), M.Eng. (Tokyo), B.Sc. Eng. Hons. (Moratuwa, Sri Lanka), C.Eng., MIE(SL), MSSE(SL)

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307/9, Daham Pasal
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PERSONAL DETAILS

Nationality: Sri Lankan
Date of Birth: 23.01.1972
Age: 48 years
Sex: Male
Marital Status: Married

EDUCATION

- | | |
|-------------|--|
| 2001 - 2004 | University of Tokyo, Japan
Ph.D. : Civil (structural) Engineering
Title : Failure and thermo-mechanical behaviour of rubber and its seismic isolation bearings. |
| 1999 - 2001 | University of Tokyo, Japan
M.Eng.: Civil (structural) Engineering
Title : Measurement of strain field of continua by image analysis. |
| 1994 - 1998 | University of Moratuwa, Moratuwa, Sri Lanka
B.Sc. (Hons) First Class in Civil Engineering (Class rank is 2 out of 100). |

HONOURS AND AWARDS

- **Gold Medal for the best paper** (A statistical based approach for demarcating a wind loading map for Sri Lanka), Annual Sessions-2017, Society of Structural Engineers Sri Lanka.
- **Award of Excellence** in recognition of the **Outstanding Research Performances** for (2009-2011), (2013-2015), (2016), (2017), (2018), (2019), (2020), University of Moratuwa, Sri Lanka.
- **Monbusho scholarship** to pursue Ph.D. programme at the University of Tokyo, awarded by the Ministry of Science, Sports and Culture, Japan (2001).
- **Monbusho scholarship** to pursue Master of Engineering programme at the University of Tokyo, awarded by the Ministry of Science, Sports and Culture, Japan (1999).

- **Rex Cross Moraes Memorial Award** for the **best Civil Engineering student in Construction** (1998).

CAREER OBJECTIVES

Employ my skills and experience in Structural Engineering; Structural analysis and designs, Computer Analysis of Structures, Structural Dynamics and Control (Earthquake and Wind engineering), Structural Health Monitoring, Structural Strengthening, etc. for further research, developments and dissemination of knowledge.

RESEARCH INTEREST

- Structural dynamics and control (Earthquake and Wind engineering)
- Structural health monitoring
- Larger strain measurements
- Bridge Engineering and management
- Structural strengthening
- Sustainable material, design and construction

CAREER SUMMERY

University of Moratuwa, Sri Lanka (October 2007 - present)

- Professor, Department of Civil Engineering

Ministry of Education, Sri Lanka (June, 2021 to to-date)

- *Project Director, Science and Technology Human Resource Development Project, ADB funded higher education project – on special leave from University of Moratuwa*

Institute of Technology, University of Moratuwa (October 2020 to February, 2021)

- *Competent Authority – on special leave from University of Moratuwa*

James Cook University, Australia (August 2019 to January, 2020)

- *Visiting Academic Researcher– Cyclone Testing Station, Townsville – on sabbatical leave from University of Moratuwa*

University of Bath, UK (March, 2009)

- *Academic Visitor– Department of Architecture and Civil Engineering*

University of Ruhuna, Sri Lanka (April 2005 - September 2007)

- Senior Lecturer, Department of Civil and Environmental Engineering

University of Ruhuna, Sri Lanka (Dec.2004 – March 2005)

- Temporary Senior Lecturer, Department of Civil and Environmental Engineering

G.C. Engineering Inc, Houston, USA. (Oct. 2004 – Nov. 2004)

- Bridge Engineer,

University of Tokyo, Japan

- Ph.D. Candidate at the Department of Civil Engineering (Oct.2001 – Sep.2004)
- M.Eng. Candidate at the Department of Civil Engineering. (Oct.1999 – Sep.2001)

Central Engineering Consultancy Bureau, Sri Lanka (Sep. 1998 – Sep. 1999), (April 1998 – Aug. 1998)

- Civil Engineer

University of Moratuwa, Sri Lanka (April 1998 – Aug. 1998)

- Assistant Lecturer at the Department of Civil Engineering.

SUMMARY OF SKILLS

- Expert on wind and earthquake loading on structures
- Developed a system for online health monitoring of civil infrastructure systems
- Developed a system for large strain measurement using image analysis.
- Conducted lectures at undergraduate and post graduate levels. The subject areas developed to conduct lectures at post graduate level are Structural Dynamics and Control, Earthquake Engineering. At the undergraduate level, mechanics of materials, structural analysis, structural dynamics and control, reinforced concrete design, masonry design.
- A member of staff team responsible for conducting Comprehensive Design Projects for fourth year students of B.Sc. Engineering undergraduate programme.
- Experience in research: Development and publishing in the areas of behaviour high damping rubber, behaviour of seismic isolation rubber bearing, large strain measurements, passive solar techniques for tropical climates, bridge management and design, earthquake resistance designs, seismic assessment of structures and use of Fiber reinforced polymers (FRP) for structural strengthening, wind hazard assessment and loading on structures, damage detection and online structural health monitoring of civil infrastructure systems, etc.
- Experience in supervising research projects at undergraduate level and post graduate level.
- Conducted structural appraisal of existing buildings including load testing.
- Experience to act as the check engineer for reinforced concrete building and bridge projects.
- Experience in reinforced concrete, pre-stressed concrete, steel, soil-steel, culvert bridge designs
- Experience in guy-mast/self supported latticed steel tower designs and structural assessment of towers.
- Worked as a Civil Engineer in multi-storey building projects and also act as a structural detailer in same projects.
- Worked as a consultant structural engineer in several project of refurbishment of over 100 years old masonry-steel buildings.
- Worked as a consultant structural engineer in many projects and proposed methodologies for structural strengthening of reinforced concrete buildings.
- Ability of use structural design software; SAP 2000, PROKON, ETABS, STADD.Pro, ANSYS
- Ability of programming with C, Matlab, Labview

PROFESSIONAL QULIFICATION & MEMBERSHIP

- **Cooperate member**, Society of Structural Engineers, Sri Lanka (from 2017)
- **Cooperate member (chartered engineer)**, Institutions of Engineers, Sri Lanka (from 2011)
- **Associated member**, Institutions of Engineers, Sri Lanka (from 1999 – 2009)

COMPLEMENTARY APPOINMENTS

- **Project Director**, Science and Technology Human Resource Development Project, ADB funded higher education project (June, 2021 to to-date)
- **Competent Authority**, Institute of Technology University of Moratuwa (October 2020- Feb. 2021)

- **Member**, Technical committee on investigation and refurbishment of cracks appeared world heritage Jethawana Stupa in Anuradhapura, Sri Lanka, Department of Archaeology, Sri Lanka (2020).
- **Member**, Organizing Committee of International Conference on Civil Engineering Applications (ICCEA- 2019), Department of Civil Engineering, University of Moratuwa, Sri Lanka (2019).
- **Member**, Organizing committee, Annual Sessions, Society of Structural Engineers Sri Lanka, (2018).
- **Editor**, Modulus, Journal of Society of Structural Engineers, Sri Lanka (2018).
- **Member, Executive Committee**, Society of Structural Engineers, Sri Lanka (2018).
- **Member**, Technical evaluation committee for setting up and operation of business center for ICT incubator in Jaffna, Ministry of Development Strategies & International Trade, Sri Lanka (2018).
- **Member**, Faculty Field Selection Committee, Faculty of Engineering, University of Moratuwa, Sri Lanka, (2017-2018).
- **International Collaborator**, FSSS Consortium, “Full scale storm simulator (FSSS) and Metrological Hazard Science Park (MHSP), Proposal submitted for Science Council of Japan, Wind Engineering Joint Usage / Research Center, Tokyo Polytechnic University, Japan (2016).
- **Expert Structural Engineer** for investigation and proposing rectification methodologies for the defects in the selected structures in Southern Transport Development Project (STDP) section from Kottawa to Kurundugahahathakma (JICA funded sections- inspection of structures after three years from completion) for Road Development Authority, Sri Lanka (Jan. 2016).
- **Member**, Faculty Exhibition Committee, Faculty of Engineering, University of Moratuwa, Sri Lanka, (2016-2018).
- **Member**, Technical advisory committee on NDT inspection, Sri Lanka Accreditation Board for Conformity assessment (SALB) (2014- To date)
- **Member**, Organization committee and Technical advisory committee of 4th International Conference on Structural Engineering and Construction Management (ICSECM) -2013 held in Kandy Sri Lanka.
- **Member**, Committee on Development of Sri Lankan National Annexes to Euro codes, Sri Lanka Standard Institution (SLSI), Sri Lanka (2013- to date).
- **Consultant Bridge Engineer** for feasibility study for Northern Expressway project, Sri Lanka (Phases 1-4) for SMEC International (Mar. 2013 – Sept. 2013).
- **Member**, Sub-committee, Development of earthquake resistant design guidelines for buildings in Sri Lanka, Disaster Management Centre, Sri Lanka (2009- 2012).
- **Member**, Technical advisory committee, Disaster Management Centre, Sri Lanka (2009-2012).
- **Member**, Technical committee on monitoring the mirrorwall at world heritage site, Sri Lanka, Central Cultural Fund, Sri Lanka (2011).
- **Member**, Building and planning committee, Department of Civil Engineering University of Moratuwa (Jan. 2011 – to date).
- **Course co-ordinator**, M.Eng in Structural Engineering Designs, Department of Civil Engineering, University of Moratuwa (2011/12).
- **Editorial board member**, CIDA Journal, published by Ministry of construction, Engineering services, Housing & common amenities (2010 – to date)
- **Sri Lankan representative for APEC-WW**, International working group on Regional Harmonization of Wind loading and Wind Environmental Specifications in Asia-Pacific

economies, Organized by GCOE program, New Frontiers of Educations and Research in Wind Engineering, Tokyo Polytechnic University, Japan (2009 – 2012).

- **Academic Advisor**, Faculty of Engineering, University of Moratuwa (Oct. 2007 – to date)
- **Committee Member**, Technical Evaluation Committee, Dept. of Civil and Environmental Engineering, Faculty of Engineering, University of Ruhuna (Feb. 2006 – Oct. 2007).
- **Committee Member**, Building and Land Committee, Faculty of Engineering, University of Ruhuna (Feb. 2006 – Oct. 2007)
- **Senior Treasurer**, Civil and Environmental Engineering Society in the Faculty of Engineering, University of Ruhuna for (2006/2007) Session.
- **Academic Warden**, Faculty of Engineering, University of Ruhuna, (June 2006 – Oct. 2007).
- **Coordinator**, Curriculum Revision, Department of Civil and Environmental Engineering, Faculty of Engineering, University of Ruhuna, (2006).
- **Student Counsellor**, Faculty of Engineering, University of Ruhuna (June 2005 – Oct. 2007).
- **Member and resource person** of working committee, Formulating recommendations for facilitating, accelerating and directing the post-tsunami recovery in the southern region of Sri Lanka, University of Ruhuna, Sri Lanka (2005).

CONSULTANCY ASSIGNMENTS (SELECTED ONLY)

- **Structural Engineer**, Assessment of quality and integrity of in-situ concrete in suspect cold joint locations of the PC girder (P14-P15/G16-3), Passenger terminal building and associated works on Bandaranaike International Airport Development Project (BIADP), Phase II Stage 2, Sri Lanka, Taisei Corporation (March, 2022).
- **Structural Engineer**, Assessment of in-situ quality of concrete in the suspect walls at proposed multi-storied Ceylex building, Kollupitiya, Sri Lanka, Tudawe Brothers (Pvt) Ltd (January, 2022).
- **Team Leader and Structural Engineer**, Development of Low Cost Concrete Modular Arch Bridge System and Retaining Wall System for ICC (Pvt) Ltd (May, 2021)
- **Structural Engineer**, Assessment of quality and integrity of in-situ concrete in suspect cold joint locations of the box girder segment (P72-LU-09) using Ultrasonic Pulse Velocity (UPV) Testing, Port Access Elevated Highway Project, Sri Lanka for China Civil Engineering Construction Corporation (March, 2021)
- **Structural Engineer**, Study on feasibility of expanding present new secretariat building at Fisheries Ministry, Maligawatta, Sri Lanka with three additional floors (March, 2021)
- **Structural Engineer** design of Carbon Fibre Reinforced Concrete (CFRP) jacketing system for reinforced concrete columns due to addition of two floors for the proposed luxury apartment building at Colombo 03, Sri Lanka for Complete Investments (Pvt) Ltd (March 2020).
- **Structural Engineer** for structural stability assessment of Overseas School of Colombo (OSC) Building Complex at Pelawatta, Sri Lanka for the OSC (February 2020).
- **Structural Engineer** for estimation of cracks depths and assessment of adequacy of repaired cracks of the damaged girder using Ultrasonic Pulse Velocity Testing, project of construction of Central Expressway, Package A for Nawaloka Constructions (Pvt) Ltd (January 2020).
- **Structural Engineer** for investigation and proposed renovation methodologies for seven storied reinforced concrete ward complex building at Gampaha Hospital for Provincial Engineering Organization (Western Province- Sri Lanka) (January 2020).

- **Structural Engineer** for investigation and proposed renovation methodologies for six storied reinforced concrete building (Dawasa Building) at Colombo 12, Sri Lanka for MD Gunasena Corporation (Pvt) Ltd (January 2020).
- **Resource person** for conducting training programme on Euro Codes for Design, Construction and Quality Assurance of Buildings and Highway Structures at Department of Civil Engineering, University of Moratuwa (March to May 2019)
- **Structural Consultant** for providing recommendations for reference wind speed values for Sri Lanka for transmission line tower designs, Ceylon Electricity Board (Sub: Qingdao Hujintong Power Equipment Co. Ltd) (October 2019).
- **Structural Engineer** for investigation on adequacy of foundation connections of the steel structures of toll plaza buildings at Arabokka and Mattala interchanges, Project for construction of extension of Southern Expressway (Section 4) for China Harbour Engineering Company Ltd (July 2019).
- **Structural Engineer** for structural integrity assessment and proposed renovation methodologies of cracks appeared reinforced concrete bio-mass chimney at Midigama Factory Premises for Camso Loadstar (Pvt) Ltd, Sri Lanka (July 2019).
- **Structural Engineer** for structural integrity assessment and proposed renovation methodologies of R Premadasa International Cricket Stadium Building Complex for Sri Lanka Cricket (July 2019).
- **Structural Engineer** for assessment of quality of suspect in-situ concrete in slab panels (using Ultrasonic Pulse Velocity Testing) of proposed Apartment Complex Building (Luna Tower) for Sunken Constructions (Pvt) Ltd, Sri Lanka (July 2019).
- **Structural Engineer** for assessment of quality of suspect in-situ concrete in columns (using Ultrasonic Pulse Velocity Testing) of proposed Apartment Complex Building for ICONIC Development (Pvt) Ltd, Rajagiriya, Sri Lanka (June 2019).
- **Structural Engineer** for structural stability assessment of Kekanadura Pradeshiya Sabha Building at Kekanadura, Sri Lanka for Resources Development Consultants (Pvt) Ltd (June 2019).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for Overhead tank and water collecting sump at Brandix Factory, Ratmalana, Sri Lanka (June 2019).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for Hikka Tranz Cinnamon Hotel Complex at Hikkaduwa, Sri Lanka for John Keels Group (Cinnamon Resorts) (May 2019).
- **Structural Engineer** for assessment of quality of suspect in-situ concrete of pre-cast girders at Boyawalana Yard, Central Expressway Project 02, Sri Lanka using Ultrasonic Pulse Velocity Testing for China Railway (No.05) Engineering Group Co. Ltd (April, 2019).
- **Structural Engineer** for assessment of quality of suspect in-situ concrete in reinforced concrete elements of MDH building at Kollupitiya, Sri Lanka using Ultrasonic Pulse Velocity Testing for Tokyo Cement Company (Lanka) PLC (April, 2019).
- **Structural Engineer** for proposing repair methodologies for damaged slab at 17th floor level due to removal of reinforcement, Havelock City Project Phase III, Colombo 05, Sri Lanka for ICC (pvt) Ltd (February 2019)
- **Structural Engineer** for investigation and proposed remedies for cracks appeared capping beams of CATIC SEEP Sub section IV, Section 1 (Matara to Beliatta), Extension of Southern Expressway from Matara to Hambanthota for China National Aero Technology International Corporation(CATIC) (February 2019).

- **Structural Engineer** for structural assessment and proposed renovation methodologies for Blu Cinnamon Hotel Complex at Trincomalee, Sri Lanka for John Keels Group (Cinnamon Resorts) (January 2019).
- **Structural Consultant** for structural damage assessment and proposed renovation methodologies for damaged structures at PT Haycarb Palu Mitra, Palu, Central Sulawesi, Indonesia after major earthquake on 28th September, 2018 for Stems Consultants (Pvt) Ltd (November 2018).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for reinforced concrete building complex located at Hirdaramani Factory Premises, Maharagama, Sri Lanka for Hirdaramani Knit Cluster (November 2018).
- **Structural Engineer** for investigation on quality of suspect in-situ concrete in main and feeder canals of CRIP-84 project using Ultrasonic Pulse Velocity Testing, for Gamini Construction Ltd (November 2018).
- **Structural Engineer** for assessment of structural adequacy of post-tensioned slabs due to removal of supporting props prior to connecting through the post cast slab strips, Project for construction of housing for government employees at Borella, Sri Lanka for Access Engineering PLC (October 2018).
- **Structural Engineer** for investigation on quality of suspect in-situ concrete in aqueduct structure using Ultrasonic Pulse Velocity Testing, Project for construction of extension of Southern Expressway (Section 4) for China Harbour Engineering Company Ltd (October 2018).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for Quinlon Theater Building at Nugegoda, Sri Lanka for EAP Films & Theaters Ltd (August 2018).
- **Structural Engineer** for investigation and proposed remedies for cracks appeared reinforced concrete deck slab section at P30 to P32 of CATIC SEEP Sub section III, Section 1 (Matara to Beliatta), Extension of Southern Expressway from Matara to Hambanthota for China National Aero Technology International Corporation (CATIC) (July 2018)
- **Structural Engineer** for investigation and proposed repair methodologies for cracks appeared reinforced concrete floor slab (Canteen floor) of factory building at Naiwala, Sri Lanka for MAS Linea Aqua (Pvt) Ltd (June 2018).
- **Structural Engineer** for studying feasibility of expanding present building (four storied) at No. 515, TB Jayah Mawatha with an additional floor for Singhagiri (Pvt) Ltd (May 2018).
- **Structural Engineer** for assessment of quality of suspect in-situ concrete in Minipe Left bank canal (Stage III), Hettipola, Wilgamuwa, for Nawaloka Construction Company (Pvt) Ltd (April 2018).
- **Structural Engineer** for assessment of quality of suspect in-situ concrete in walls and slab of partially completed 14 storied apartment building at Colombage Mawatha, Nawala for HRL holdings (Pvt) Ltd (March 2018).
- **Structural Engineer** for structural assessment of parking facility building, Cinnamon Lakeside Hotel, Colombo, Sri Lanka for John Keells Holdings (Feb 2018).
- **Structural Engineer** for investigation and proposed repair methodology for cracks appeared spillway structures of Iranamadu Tank, Kilinochchi for Access Engineering PLC, (Feb 2018)
- **Structural Engineer** for assessment of structural adequacy of suspect post-tensioned I-girder (35m span) due to early lifting after grouting using Ultrasonic Pulse Velocity Testing for China Harbour Engineering Co. Ltd (STDP extension, Section 04) (Jan 2018).
- **Structural Engineer** for rehabilitation of fire damaged reinforced concrete floor of proposed Aurvedic Wellness Center Hotel at Weligam for Duminda Builders (Pvt) Ltd (Jan 2018).

- **Structural Engineer** for investigation on structural adequacy of two storied Disaster Management Center Building at Agalawatta for Agalwatta Pradeshiya Sabha (Dec 2017).
- **Structural Engineer** for investigation on structural failure of partially constructed building at Ja-ela for Lanka Electricity Company (Pvt) Ltd (Dec 2017).
- **Structural Engineer** for investigation on structural adequacy of steel factory building of Pulses Splitting & Processing Industry (Pvt) Ltd, Sapugaskanda (Nov. 2017).
- **Structural Engineer** for design study on structural adequacy of defective pier columns for China Harbour Engineering Co. Ltd (STDP extension, Section 04) (Oct. 2017).
- **Structural Engineer** for investigation and proposed remedial for suppression due to machine induced vibration on first floor of two storied factory building at ATG Gloves Knitting (Pvt) Ltd, Wathupitiwala (Sept. 2017).
- **Structural Engineer** for design of diaphragm wall and capping beam for proposed residential twin towers (Achilleion) at Colombo 04 for San Piling (Pvt) Ltd (Aug. 2017)
- **Structural Engineer** for reinstatement of fire damaged steel structure at Rajagiriya for Laugfs Supermarkets (Pvt) Ltd (July 2017).
- **Design check Engineer** for 14 storied Porshia apartment building at Nawala, Nugegoda for Homalands Skylline (Pvt) Ltd (July 2017).
- **Structural Engineer** for reinstatement of Savoy theater building at No.12, Galle Road, Wellawatta for EAP Holdings (Pvt) Ltd (July 2017).
- **Structural Engineer** for structural assessment of new five storied district secretariat building at Puttalam (May 2017).
- **Structural Engineer** for investigation on cracks appeared T-girders and repair methodology, Section I, Sub-section III, Extension of Southern Expressway from Matara to Hambanthota, China National Aero Technology International Corporation (CATIC) (April 2017).
- **Structural Engineer** for structural assessment and renovation methodology for two storied 80 years old building at Holy Family Convent, Bambalapitiya for Airrow Solutions (Pvt) Ltd (Feb. 2017)
- **Structural Engineer** for design of cable propping system in banana plantation at Dole Lanka (Pvt) Ltd (Jan. 2017)
- **Structural consultant** for vibration monitoring and recommendations on allowable limits and suppressions due to bored pile driving at the site of proposed apartment complex at No.447, Union Place, Colombo 02 for Nawaloka Piling (Pvt) Ltd (Jan.2017)
- **Structural Engineer** for investigation on cracks appeared T-girders and proposed preventive measures and repair methodology, China National Aero Technology International Corporation (CATIC) (Nov. 2016).
- **Structural Engineer** for design and preparation of manufacturing specifications on spun cast pre-stressed concrete circular utility poles for Ceylon Electricity Board (CEB), USS Engineering (Pvt) Ltd (Oct. 2016).
- **Structural Engineer** for investigation of vibration issues at Amangalla Hotel Building at Galle, NOH Hotels (Pvt) Ltd (Aug. 2016).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for Benthota Beach Hotel Complex at Benthota, John Keells Holding PLC (July 2016).
- **Structural Engineer** for investigation of structural adequacy and quality of concrete at suspect locations of Central Effluent Treatment Plant at Katunayake, Sierra Systems Engineering (Pvt) Ltd (May, 2016)
- **Structural Engineer** for investigation and proposing rectification methodologies for the defects in the selected structures in Southern Transport Development Project (STDP) section

from Kottawa to Kurundugahahathakma (JICA funded sections- inspection of structures after three years from completion) for Road Development Authority, Sri Lanka (Jan. 2016).

- **Structural Engineer** for inspecting quality of Low-e glass tempering and testing process at FG Glass Industries (Pvt) Ltd, Mumbai, India for proposed SAARC cultural Center at Navimana, Matara, Sri Lanka (Nov. 2015).
- **Structural Engineer** for studying quality of suspect concrete in walls of water treatment plant using rebound hammer testing of Dry Zone Urban Water & Sanitation Project, Vauniya, Sri Lanka for Sierra Constructions (Pvt) Ltd (Nov. 2015).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for 100 years old Savoy building at No. 12, Wellwatta for EAP Holdings Ltd (Sept. 2015).
- **Structural Engineer** for investigating structural adequacy of five storied reinforced concrete building at Wesley College, Colombo 06 (Aug. 2015).
- **Structural Engineer** for vibration monitoring and recommendations for suppression due to sheet pile driving at the site of proposed building for APL, Colombo 08 for RN Constructions (Pvt) Ltd (Aug. 2015).
- **Structural Engineer** for structural stability assessment for factory buildings located at Kottawa and Hanwella for Dipped Products PLC (Aug. 2015).
- **Structural Engineer** for investigating structural soundness and proposed renovation methodologies for eight storied reinforced concrete ward complex building at Negombo base hospital for ministry of health, Western Provincial Council (July, 2015).
- **Structural Engineer** for design review for the proposed eight storied entertainment complex at Rajagiriya, Sri Lanka for Glaxy Landmark Ltd (July, 2015).
- **Structural Engineer** for studying quality of suspect concrete in wall of flocculation tank using Rebound hammer testing of Dry Zone Urban Water & Sanitation Project, Vauniya, Sri Lanka for Sierra Constructions (Pvt) Ltd (June, 2015).
- **Design Engineer** for strengthening a steel portal frame roof of a building belongs to Southern Spars International (Pvt) Ltd, Walgama, Malwana, Sri Lanka (May 2015).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for 100 years old BOI head office building at No. 14, Sir Baron Jathilake Mawatha, Colombo 01, for Board of Investment of Sri Lanka (May 2015).
- **Structural Engineer** for carrying out UPV testing on reinforced concrete wall of Clarifier Tank at waste water treatment plant at Thinadhoo Island, Maldives for Sierra Constructions (Pvt) Ltd (March, 2015)
- **Structural Engineer** for investigating structural soundness of three storied building at ATG Ceylon (Pvt) Ltd., Katunayake (March, 2015).
- **Structural Engineer** for investigating in-situ concrete quality of suspect foundation footins at proposed TBL TRC-IT park building at Suriyawewa for Tudawe Brothers (Pvt) Ltd (Dec. 2014).
- **Structural Engineer** for investigating structural soundness of Cardiothoracic Unit Building at Colombo National Hospital (Oct. 2014).
- **Structural Engineer** for investigating structural capacity by load testing of 1st floor slab of proposed building for Mahindodaya Technical Laboratory at St. Mary's Tamil School, Kegalle (Sept. 2014).
- **Structural Engineer** for investigating structural adequacy of two storied reinforced concrete building at Institute of Chartered Accountants of Sri Lanka, Colombo 07 (Aug. 2014).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for cracks appeared 1st floor slab of proposed holiday home for Central Bank of Sri Lanka at Kataragama, Sri Lanka for Central Bank of Sri Lanka (Aug. 2014).

- **Structural Engineer** for structural assessment and proposed renovation methodologies for cracks appeared 4th floor slab of SLIATE ATI building at Ratnapura, Sri Lanka for Ministry of Higher Education (Aug. 2014).
- **Structural Engineer** for studying quality of concrete in the swimming pool base at proposed KTCCS leisure center at Ambatale, Kaduwela for Darinton Construction (Pvt) Ltd (July, 2014)
- **Structural Engineer** for carrying out UPV testing on reinforced concrete columns at RIL property project Building at Colombo 02 for Nawaloka Constructions Co. (Pvt) Ltd (April, 2014)
- **Structural Engineer** for feasibility and design study on usage of spun cast pre-stressed concrete circular poles as utility poles for Sri Lanka Telecom (April, 2014)
- **Structural Engineer** for carrying out Rebound Hammer testing on reinforced concrete ground reservoirs to check the quality of concrete in Eastern Water Supply Project, Ampara, Sri Lanka for Sierra Construction (Pvt) Ltd (Feb. 2014).
- **Structural Engineer** for carrying out UPV testing on reinforced concrete inlet chamber wall of flocculation tank for investigate the quality of concrete at Greater Kandy Water Supply Project, Katugastota, Sri Lanka for Vonlan Construction (Pvt) Ltd (Feb. 2014)
- **Structural Engineer** for studying the optimization of reinforced concrete telecommunication poles for cost reduction for Sri Lanka Telecom PLC (Oct. 2013).
- **Structural Engineer** for investigation of crack formation and reusability of fallen 35 m span post-tensioned beam at flyover bridge in an interchange (C9B) of Mirijawila 100 ft road for China National Aero Technology International Engineering Cooperation, Sri Lanka (Aug. 2013)
- **Structural Engineer** for design review of proposed five storied building for banking studies for Central Bank of Sri Lanka(July 2013).
- **Structural Engineer** for structural assessment and proposed renovation methodologies for 100 years old five storied Gafoor building at Main Street, Colombo 01, Sri Lanka for Urban Development Authority (May 2013).
- **Consultant Bridge Engineer** for feasibility study for Northern Expressway project, Sri Lanka (Phases 1-4) for SMEC International (Mar. 2013 – Sept. 2013)
- **Structural Engineer** for structural assessment and proposed renovation methodologies for four storey over 100 years old Whiteaways building at No. 25, Sir Baron Jathilake Mawatha, Colombo 01, Sri Lanka for Central Bank of Sri Lanka (Nov. 2012).
- **Consultant Engineer** for air quality testing at Cinnamon Bay Hotel at Beruwala, Sri Lanka for Beruwala Holiday Resorts (Pvt) Lt., (Nov. 2012)
- **Structural Engineer** for investigation of excessive vibration due to embroidery machines and proposed control methodologies for excessive vibration and repair methodologies for cracked reinforced concrete beams for Hydramani Group, Maharagama, Sri Lanka (Oct. 2012)
- **Consultant Engineer** for air quality testing at Bosch repair centre of Diesel & Motor Engineering PLC at No. 65, Jetawana Road, Col. 14, Sri Lanka (Sept. 2012)
- **Structural Engineer** for analysis and design of guy mast telescopic mobile steel latticed towers for Tantri Trailors (Pvt) Ltd., Sri Lanka (Aug, 2012)
- **Structural Engineer** for strengthening of steel mezzanine floor in factory building in Horana, Sri Lanka for Industrial Stainless Steel Fabrication (Pvt) Ltd., (Aug. 2012).
- **Structural Engineer** for investigation of structural soundness of parapet wall at over 150 years old High Court building at Superior Courts Complex, Maradana, Sri Lanka for Ministry of Justice (Aug. 2012)

- **Structural Engineer** for investigation of transmission of vibration for AC units to the floor slab of renovated Lloyds building and proposed remedial measures to control the excessive vibration in floor slabs for Central Bank of Sri Lanka (July, 2012)
- **Structural Engineer** for investigation of quality of concrete in the base slab of raw water intake of Ruhunupura, Water Supply Project for Water Supply and Drainage Board of Sri Lanka (July 2012)
- **Structural Engineer** for investigation of piling induced vibration effects on central bank towers due to construction of multi-storied (10 storied) car park and its design review, Central Bank of Sri Lanka (June, 2012)
- **Structural Engineer** for submitting proposal for structural rectification of steel factory building at Horana, Sri Lanka for Heritage Premier Foods (Pvt) Ltd., (June 2012).
- **Structural Engineer** for studying the formation of cracks in Mattala Airport access Padawkema-Andarawewa concrete paved road and proposed remedial measures for Maga Neguma Road Construction Equipment (Pvt) Ltd. Sri Lanka (June 2012)
- **Structural Engineer** for studying heavy vehicle induced vibration analysis and its effects on nearby buildings at Wawe panasala road at Pahala Imbulgoda, Sri Lanka for USS Engineering (Pvt) Ltd., (May 2012).
- **Structural Engineer** for investigation on bolt deformation and design check of self supported 40 m and 60 m high steel latticed towers for ZTE Lanka (Pvt) Ltd., (March, 2012)
- **Structural Engineer for** structural assessment and proposed renovation methodologies for Jayakody Maha Vidyalaya, Ganemulla, Sri Lanka for Western Provincial Engineering Organization (Jan, 2012).
- **Structural Engineer for** structural assessment and proposed renovation methodologies for Helena Balika Maha Vidyalaya, Kelaniya, Sri Lanka for Western Provincial Engineering Organization (Jan, 2012).
- **Structural Engineer for** structural assessment and proposed renovation methodologies for St. Paul's Girls School, Milagiriya, Sri Lanka for Ministry of Education (2011).
- **Structural Engineer** for structural assessment of four storied "Blondina Court" building at No.158, Walukarama Road, Colombo 03, Sri Lanka(2011).
- **Structural Engineer** for studying technical feasibility for proposed 20 storied building at Lotus Road, Colombo 01 for Sri Lanka Telecom PLC (2011).
- **Coordinator and Resource person** for conducting training programme on Disaster Resistant Building for Sri Lanka (in collaboration with Disaster Management Centre (Sri Lanka) and UNDP) (2011).
- **Design Engineer**, Design of reinforced concrete underpasses for Southern Transport Development Project (STDP), two lanes to four lanes widening, Galle to Matara, Road Development Authority, Sri Lanka (2011).
- **Design Engineer**, rectification proposal for cracked box-culvert in Southern Transport Development Project, China Harbour Cooperation, Sri Lanka (2011).
- **Structural Engineer**, structural assessment of fuel storage steel tank and its foundation located at Magalle, Galle, Ceylon Petroleum Terminals (pvt) Ltd., Sri Lanka (2011).
- **Design Engineer**, proposal and design of jetty of Kapprathota fishery harbour, Sri Lanka (2010).
- **Design Engineer**, traffic induced vibration analysis and design checked for Daduruoya old steel bridge in Anuradhapura – Padeniya road, Road Development Authority, Sri Lanka (2010).
- **Design Engineer**, analysis and design of 40 m and 60 m self supported steel towers for Tantri Trailors (pvt) Ltd., Sri Lanka, (2010).

- **Design Engineer**, analysis and design of 40 m guy mast tower supported steel tower for Tantri Trailors (pvt) Ltd., Sri Lanka, (2010).
- **Structural Engineer**, Structural assessment of Church Hill reservoir at Sapugaskanda, Sri Lanka (2010).
- **Design Engineer**, structural assessment and improvements to metal underpasses (soil-steel bridges) in the ADB funded section of Southern Transport Development Project, Sri Lanka (2010).
- **Structural Engineer**, structural assessment and strengthening of cracked pre-stressed concrete beams in a floor of an Inland Revenue Department Building at Colombo due to light plane blast, Sri Lanka (2010).
- **Structural Engineer**, assessment of quality of construction work of partially completed 38 storied Emperor Tower at Kollupitiya, Sri Lanka (2009)
- **Structural Engineer**, Structural assessments of foundation of Airtel towers at Ranjurawa, Adikarigama, Rozella and Hulandawa, 2009
- **Resource person** for conducting training programme on Static, dynamic analysis and structural design of highway bridges for bridge Engineers, 2009.
- **Structural Engineer**, Structural assessment of 150 years old six storey Lloyds Building at Colombo 01, Sri Lanka, 2009.
- **Structural Engineer**, assessment of quality of construction work of partially completed 38 storied Emperor Tower at Kollupitiya, Sri Lanka, 2009.
- **Structural Engineer** for 550 million South Asian Association for Regional Cooperation (SAARC) sponsored cultural centre at Matara, an elevated five storey building complex designed, 2009.
- **Structural Engineer**, Proposing preliminary design for Gangei, Kayankerni bridges in A15 highway in Eastern Province for China Harbour Cooperation, 2009.
- **Structural Engineer**, Structural assessment and design proposal for strengthening of mezzanine floor of a factory building in American and Efir Lanka (Pvt) Ltd, 2009.
- **Resource person** for conducting training programme on Use of Structural Design and Construction for Quality Assurance of Buildings for Western Provincial Engineers and Technical Officers, 2008.
- **Design Engineer**, Proposing alternative and structural design for 300 m long Kalladi bridge in Eastern Province of Sri Lanka as prestressed concrete six span bridge, 2008.
- **Structural Engineer**, structural assessment of Sri Lanka High Commission Building Complex in New Delli, India, 2008.
- **Structural Engineer**, structural Assessment Basement floor of Police City Traffic Building, Colombo, 2008.
- **Design Engineer**, Design of 7 storey Building for Ministry of Environment and Natural resources, 2008.
- **Structural Engineer**, structural Assessment of Villachchiya Divisional Secretary's office, Villachiya, 2008.
- **Structural Engineer**, structural Assessment of Devapathiraja MV at Rathgama, 2008.
- **Structural Engineer**, structural Assessment of Mirissa School Complex, Mirissa, 2007
- **Structural Engineer**, structural Assessment of three storeyed building Buddhist Girl's Collage, Mt. Lavinia, 2007
- **Coordinator and Member of Design Team**, Design of a Davit supportive steel structure for MSTI Galle, Sri Lanka, 2006.
- **Member of Academic Team** for carrying out Environmental Assessments in the Home Owner Driven Component of Tsunami Housing Reconstruction for RADA, Hikkaduwa DS division, Sri Lanka, 2006.

- **Member of Academic Team** for carrying out Damage Assessments of the Government Infrastructures due to Tsunami, Habaraduwa and Hikkaduwa DS Divisions, 2006.

OTHER INVOLVEMENTS

- **Sri Lankan delegate** to attend 7th workshop on Regional Harmonization of Wind loading and Wind Environmental Specifications in Asia-Pacific economies (APEC-WW 2012), Vietnam, November, 2012.
- **Sri Lankan delegate** to attend 6th workshop on Regional Harmonization of Wind loading and Wind Environmental Specifications in Asia-Pacific economies (APEC-WW 2010), South Korea, October, 2010.
- **Sri Lankan delegate** to attend 5th workshop on Regional Harmonization of Wind loading and Wind Environmental Specifications in Asia-Pacific economies (APEC-WW 2009), Taiwan, November, 2009.
- **Executive Committee Member**, Ruhuna Engineering Teachers Association (June 2005 – Oct 2007).
- **Executive Committee Member**, Sri Lanka Students' Association in Japan (2001-02).

THEMES OF CONCLUDED/ONGOING RESEARCH PROJECTS

1. Explainable Machine Learning (XML) to predict wind pressure of civil infrastructure systems.
2. Low cost concrete modular systems for civil infrastructures
3. Study on boundary wall effects on external wind pressure variation of low-rise buildings.
4. A study on wind effects on low rise buildings due to surrounding trees.
5. Development of advance design criteria for stronger lattice towers.
6. Comparative study on building materials for the construction of refuge space
7. Detection and estimation of damage in framed structures using experimental modal data.
8. Development of low cost online structural health monitoring system for civil infrastructures using wireless smart sensors.
9. An assessment of Wind loading and wind energy potential for Sri Lanka.
10. Behaviour of reinforced concrete flexural members strengthened with externally bonded Carbon Fibre Reinforced Polymers (CFRP).
11. Behaviour of reinforced concrete columns confined with Carbon Fibre Reinforced Polymers (CFRP).
12. Development of national guidelines for seismic analysis and design of (engineered) buildings in Sri Lanka.
13. Comparative study on seismic analysis of buildings for different code of practices commonly used in Sri Lanka.
14. Seismic hazard assessment for Colombo city with local site effects.
15. Evaluation of seismic capacity of existing highway bridges in Sri Lanka.
16. Development of earthquake resistant designs methodologies and construction technologies for masonry building in Sri Lanka.
17. Dynamic analysis and design of Polwathumodara bridge in Southern Transport Development Project, Sri Lanka.
18. Structural aspects of post tsunami domestic construction, Department of Civil Engineering, University of Moratuwa, Sri Lanka.
19. Development of expert system for bridge management in Sri Lanka.
20. Failure and thermo-mechanical behaviour of rubber and its seismic isolation bearings.

21. Measurement of strain field of continua by image analysis.
22. Passive solar techniques for Sri Lanka.

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1. DPP Meddage, IU Ekanayake, AU Weerasuriya, **CS Lewangamage**, KT Tse, TP Miyanawala, CDE Ramanayaka, Explainable Machine Learning (XML) to predict external wind pressure of a low-rise building in urban-like settings, *Journal of Wind Engineering and Industrial Aerodynamics*, Vol. 226, PP.105027, 2022.
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3. AMLN Gunathilaka, **CS Lewangamage**, MTR Jayasinghe, Development of design guideline for the baseplate thickness of lattice towers, *Journal of Innovative infrastructure solutions*, Springer International, Vol.6 (4), pp 1-11, 2021.
4. P Vishnu, K Kirishikesan, **CS Lewangamage**, MTR Jayasinghe, Using Sub-Giga Hertz Technology In High Sampling Rate Wireless Monitoring Systems Used In High-Rise Buildings, Moratuwa Engineering Research Conference (MERCon 2021 - *IEEE Xplore*), pp. 269-274, 2021.
5. DPP Meddage, Imesh Udara Ekanayake, AU Weerasuriya, **CS Lewangamage**, Tree-based Regression Models for Predicting External Wind Pressure of a Building with an Unconventional Configuration, Moratuwa Engineering Research Conference (MERCon 2021 - *IEEE Xplore*), pp. 257-262, 2021.
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8. Bryan E. Thevarajah, M. T. R. Jayasinghe, **CS Lewangamage**, Tim J. Ibell, Embodied Energy and Carbon Footprint of Two Storied Refuge Space with Lightweight Load Bearing Panels, Moratuwa Engineering Research Conference (MERCon 2020- *IEEE Xplore*), Sri Lanka, 2020.
9. P Bogahawaththa, W R De Silva, **CS Lewangamage**, Spot Damage Estimation of Framed Structures Using Modal Data, Moratuwa Engineering Research Conference (MERCon 2019- *IEEE Xplore*), Sri Lanka, 2019, pp 19-24.

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12. W.L.S. Maduranga, **C.S. Lewangamage**, Development of wind loading maps for Sri Lanka for use with different wind loading codes, *ENGINEER*, Vol. LI, No.03, 2018.
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3. P.A.H. Madusanka, **C.S. Lewangamage**, "Use of Winkler model for understanding seismic performance of medium rise apartment buildings under SSI effect", Proceedings of special session on Earthquake Engineering and Engineering Seismology, 8th International Conference on Structural Engineering and Construction Management (ICSECM), Sri Lanka, December 2017, pp 56-61.
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24. Suganya Paskaran, Manori Perera, Dhanushaka Kumara, MTR Jayasignhe, Chintha Jayasinghe, **C.S. Lewangamage**, Study on cracks developed in Dematamal Vihararaya, Uva Province, Sri Lanka, proceedings of the International Conference on Structural Engineering, Construction and Management (ICSECM), 2011, Sri Lanka.
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30. P.D.R Perera, **C.S. Lewangamage**, M.T.R. Jayasinghe, “An Experimental Study on Flexural Strengthening of Reinforced Concrete Beams Using Externally Bonded FRP”, Proceedings ERU symposium, University of Moratuwa, 2010, pp 34-36.
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33. S.A.D. Induprabha, R.P.G.K.S. Rajapakha, K.D.Y.E. Siriwardana, , M.T.R. Jayasinghe, **C.S. Lewangamage**, “Finite Element Modeling of Short Span Soil-Steel Bridge Structures Used in Southern Highway in Sri Lanka”, Proceedings ERU symposium, University of Moratuwa, 2010, pp 69-71.
34. **Lewangamage C.S.**, M.T.R Jayasinghe, Rehabilitation of blast damaged pre-stressed concrete beams with Fiber Reinforced Polymers (FRP), proceedings of the International Conference on Sustainable Built Environments (ICSBE), Sri Lanka, 2010.
35. A.U. Weerasuriya, **C.S. Lewangamage**, M.T.R Jayasinghe: Comparison of five wind codes in Sri Lankan context, proceedings of 6th workshop on Regional Harmonization of Wind loading and Wind Environmental Specifications in Asia-Pacific economies (APEC-WW 2010), South Korea, October 2010.
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I certify that all information stated in this resume is true and complete to the best of my knowledge.



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