

AHILAN SELLADURAI (AHI) PE, SE, PMP
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EDUCATION	MSCE (Hons) in Structural Engineering, 2008, New Mexico State University, NM GPA 4.0/4.0 – Honor Graduate BSc Eng (Hons) in Civil Engineering with specialization in Structural Engineering, 2004, University of Moratuwa, GPA 3.4/4.2	
PROFESSIONAL REGISTRATION	Professional Engineer, CA, Registration No.77011. Professional Engineer, WS, Registration No: 54684 Structural Engineer, CA, Registration No. 6253 Structural Engineer, HI, Registration No. 16963 Engineering In Training, NM, Registration No. 6629 Project Management Professional, PMI No: 198826	
SPECIAL SKILLS	Project Management	<ul style="list-style-type: none">• Pursuit & Proposal Process• Project Management & Program Management• Project Schedule Development & Management• Scope Development & Management• Project Execution & Monitoring• Quality Control & Quality Assurance• Project Coordination with Agencies and Sub Consultants• Labor Planning & Invoicing• Project Close-out
	Technical Skills	<ul style="list-style-type: none">• LRFD Design of All Type Concrete Bridges, Steel Bridges, Cast in Place Retaining Walls, Tie-Back Walls, MSE Walls, Geo MSE Walls, Different Type of Culverts, Wing walls, Head Walls and related drainage structures• Expert in Retaining & Underground Structures Type Selection, Design and Construction• High Rise Building Both Vertical & Lateral force design (Both Seismic & Non-Seismic Design)• Steel, Concrete, Masonry & Timber Design• AASHTO LRFD 2007/2010/2012/2014 Design procedures.• Sound Knowledge in IBC/ACI/AISC/ASCE-7-10• Seismic Design of Bridges.
	Computer Skills:	CSi Bridge, SPA2000, ETABS, VBridge, VBent, Bentley Softwares, LPILE 5/2013, X-Section, Microsoft Office with excel VBA programming, AutoCAD, MathCAD, CANDE, XTRACT.

**PUBLICATIONS
& PRESENTATIONS**

- Full Day Seminar, Retaining Wall Design and Slope Stability, Half Moon Education, Sacramento Session, Instructor, Nov 2016
- Oral Presentation, Changes in Earth Retaining Structures due to AASHTO & CALTRANS Design Specification Changes, San Joaquin Road Commissioners & County Engineers Association, Golf & Lunch Meeting , Guest Speaker, July 2016
- Oral Presentation, Changes in Earth Retaining Structures due to ASD to LRFD Code Transition, ASCE Central Valley Branch , Stockton, Guest Speaker, July 2016
- Oral Presentation, Changes in Earth Retaining Structures, ASCE Capital Branch , Sacramento, Guest Speaker, April 2016
- Oral Brown-Bag Presenter, Earth Retaining Structures, AECOM Transportation.
- Oral Presentation, Significant Changes for Design and Construction Cost for Earth Retaining Structures due to Recent AASHTO LRFD Changes 2007 to 2014, Western Bridge Seminar-2015; Reno, Nevada.
- Oral Presentation, Design and Construction Challenges of Drilled Shaft – Honolulu Rail Transit Project, Western Bridge Seminar-2015; Reno, Nevada.
- Oral Presentation, Finite Element Based LRFD Design of Bottomless Culverts Using CANDE, Western Bridge Seminar-2011, Arizona.
- Author, Conference paper and poster presentation, 2012 ASCE Structure Congress, Detailed LRFD Based Design of Bottomless Culverts.
- Author, Evaluation of Field implementation of a Fogging System Used during Concrete Bridge Deck Construction, Master’s thesis, NMSU.
- Author, Evaluation of Field implementation of a Fogging System Used during Concrete Bridge Deck Construction, NMDOT Research Bureau, available online. Report No. NM04STR-02

WORK EXPERIENCE

Senior Bridge Engineer, T.Y.Lin International. USA., Oct 2015 to date
Duties: Project Management, Pursuit Support & Proposal Development, Project Coordination, Conceptual design, detailed design, development of plans, and estimating for highway bridges, railroad bridges, and earth retaining structures (retaining walls, culverts, and tie-back walls. Making sure the project design meets all requirements and specifications for AASHTO load and resistance factor design).

Senior Bridge Engineer, AECOM Transportation Inc. USA., Jan 2009 to Oct 2015
Duties: Structural design of bridges (Including super structures and substructures), retaining walls, culverts and other elements, preparing plans, preparing engineer’s estimate and planning tasks assigned by managers. All above work includes preparing technical calculations, sketches, helping drafters to do drawings, back check drawings, quantity estimation and all other related tasks to complete project submittals.

Research/Teaching Assistant, New Mexico State University, Aug 2007 to Dec 2008

Duties: Doing research work with advisor and assigned team members. Research work includes literature search on previous articles which are related to given topic and collecting literature data's and gathering necessary information from those articles. Further, preparing and testing laboratory scale models, implementing and evaluating full scale models which were given success results in laboratory scale.

Design Engineer, VSL Singapore – 2006 Sept – 2007 Aug

Duties: Design of post tension and pre tension structures for heavy loaded industrial structures, parking structures and bridges, tender technical support and coordination with technical parties (client, architect, and consultant).

Structural Design Engineer – DE Consultants – Singapore – 2005 Aug – 2006 Aug

Duties: Tender and final design of residential and commercial structures (High rise buildings, Warehouses and etc) with software modeling technologies, submission for technical authorities for approval and coordination with contractors and clients.

Design Engineer, Aarco Pte Ltd – Sri Lanka – 2004 May – 2005 Aug

Duties: Preparation of preliminary layout and structural design of building and trusses, coordination with technical parties, preparing drawings and etc.

Trainee Engineer – STRAD Consultants – Sri Lanka – 2003 May – 2003 Oct

Duties: Learning design aspects and did members designs, construction site inspection training, and piling construction work.

AWARDS AND HONORS

Honors graduate award on MSc (Fall 2008) for outstanding academic success and maintaining highest GPA
2001-04 Mahapola Higher Education Scholarship, Ministry of Education, Sri Lanka