Robert Wang

San Francisco, CA 94105

Curriculum Vitae

# EDUCATION

2020 – 2020 Ignite Certificate Program for Entrepreneurship and Innovation

Stanford University Graduate School of Business, Stanford

2018 – 2020 M.S in Structural Engineering

Stanford University, Stanford

2013 - 2017 B.A.sc in Civil Engineering (CO-OP)

University of Ottawa, Ottawa

# WORK EXPERIENCE

Mar 2021 – Present **Design Engineer** Oakland, CA

*Degenkolb Engineers*

Jul 2020 – Feb 2021 **Design Engineer** Santa Clara, CA

*Gregory P. Luth & Associates, Inc.*

* Performed design, analysis, modeling, detailing, and drafting work for various new buildings as well as retrofit of existing buildings. Utilized Tekla for HD BIM workflow
* Representative Projects: MACLAC Seismic Retrofit, 850 Oakland, Wilmorite Danville Casino, Landside Casino

May 2020 – Jul 2021 **Student Research Assistant** Stanford, CA

*Stanford University – Department of Civil Engineering*

* Assisted PhD students with research in the development of a nonlinear connection model for pre-Northridge moment frames. Digitized existing test data via Matlab and developed OpenSees models to statistically characterize fracture parameters

Sep 2019 – Mar 2020 **Graduate Teaching Assistant** Stanford, CA

*Stanford University – Department of Civil Engineering*

* Teaching assistant for Professor Gregory Deierlein’s graduate level structural analysis courses.
* CEE 280: Advanced Structural Analysis (Fall 2019)
* CEE 282: Nonlinear Structural Analysis (Winter 2020)

# INTERNSHIP EXPERIENCE

Jun 2018 – Sep 2018 **Engineering Intern** San Francisco, CA

*Degenkolb Engineers*

* Construction Means & Method Group: designed excavation shoring, retaining walls, temporary bracing, and other construction-engineering tasks.
* Science & Technology Group: designed and analyzed layouts for various tenant improvement projects for tech clients around the Bay Area. Experience involved cold-form steel structures, curved tube-steel structures, equipment seismic anchorage. Utilized Dynamo to extract node coordinates of complex architectural features

Apr 2018 – Aug 2018 **Design/Field Engineer** Toronto, ON

*Adjeleian Allen Rubeli Ltd.*

* Designed two-way slab systems (flat slab & flat plates) for several residential high-rise projects in Toronto

May 2017 – Aug 2017 **Structural Engineering Intern** Ottawa, ON

*Adjeleian Allen Rubeli Ltd.*

* Assisted engineers with load calculations, member proportioning, garage condition assessment, site visits, shop-drawing review/mark-up, fee proposal preparation, field inspection reports. Performed preliminary structural analysis of small to medium scale restoration & fit-up projects across Ottawa.

Sept 2016 – Dec 2016 **Junior Construction Coordinator** Ottawa, ON

*PCL Constructions Inc*

* Junior Field coordinator at the $269 million Government Conference Center Rehabilitation Project. Facilitated coordination efforts between M&E, fire-separation, and interior walls/ceilings trades. Resolved daily construction interference and conflicts. Served as liaise between foremen, superintendents, and project managers

Jan 2016 – Apr 2016 **Junior Project Manager** Ottawa, ON

*Public Services & Procurement Canada*

* Junior project manager at the $863 million West Block Rehabilitation Project. Responsible for monitoring expenditures, creating change orders for contract amendments, and daily site visit for progress tracking and associated report.

May 2015 – Aug 2015 **Student Research Assistant – Structures Lab** Ottawa, ON

*University of Ottawa*

* Assisted graduate students with lab testing and literature review concerning electrical resistivity characteristics in cement and Ultra-High Performance Fiber-Reinforced Concrete (UHP-FRC) at early stages of hydration

# SKILL HIGHLIGHTS

* RISA-3D, ETABS, SAP2000, SAFE, RISA-Floors, RAMS, spSlab, spColumn
* Python, C++, Excel/VBA, MATLAB, MathCAD, HTML, CSS, JS
* Tekla, AutoCAD, Sketchup, Revit, Bluebeam, Dynamo

# AWARDS & DISTINCTIONS

* Ontario Professional Engineers Foundation for Education Scholarship (2017)
* Vanapalli Geotechnical Engineering Scholarship (2017)
* OSOTF Engineering Scholarship (2016)
* Faculty of Engineering Merit Scholarship (2016)
* Four-time Dean’s Honor List Distinction (2013-2017)
* Renewable Admission Scholarship (2013-2017)

# EXTRA-CURRICULARS

* Stanford SEG Student Representation (2019-2020)
* Stanford Graduate Student Programming Board (GSPB) Event Planner (2018-2020)
* Stanford SGSI Leadership Laboratory (2019)
* Stanford VPGE Negotiation Workshop (2019)
* Stanford New Graduate Student Orientation Event Volunteer (2019)
* Stanford Talk of the Farm Speaking Club (2019)
* Toastmaster Club #2102634 Member (2018)
* Engineers Without Borders – Water for the World Workshop Facilitator (2018)
* Habitat for Humanity Pinery Trail Housing Build (2018)
* MLSE 50/50 Ticket Seller at Raptor’s Game (2018)
* Toronto Ice Fest Volunteer (2018)
* Rogers Cup Raffle Ticket Seller (2018)
* Ottawa Race Weekend – Water Station Volunteer (2017)
* Ottawa Race Weekend – Registration Desk Volunteer (2017)
* National Troitsky Popsicle Bridge Building Competition Bronze Medalist (2017)
* Student Member of PEO, CSCE, OSPE, ACI uOttawa Student Chapter (2013-2017)
* Dunlace Tennis Club Summer Tennis Camp Instruction (2012-2014)