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)