

# Robert Wang

San Francisco, CA 94080

Curriculum Vitae

## EDUCATION

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2020 – 2020	<b>Ignite Certificate Program for Entrepreneurship and Innovation</b> Stanford University Graduate School of Business, Stanford
2018 – 2020	<b>M.S in Structural Engineering</b> Stanford University, Stanford
2013 - 2017	<b>B.A.sc in Civil Engineering (CO-OP)</b> University of Ottawa, Ottawa

## WORK EXPERIENCE

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Mar 2021 – Present	<b>Designer</b> <i>Degenkolb Engineers</i>	Oakland, CA
Jul 2020 – Feb 2021	<b>Design Engineer</b> <i>Gregory P. Luth &amp; Associates, Inc.</i> <ul style="list-style-type: none"><li>• 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</li><li>• Representative Projects: MACLAC Seismic Retrofit, 850 Oakland, Wilmoreite Danville Casino, Landside Casino</li></ul>	Santa Clara, CA
May 2020 – Jul 2021	<b>Student Research Assistant</b> <i>Stanford University – Department of Civil Engineering</i> <ul style="list-style-type: none"><li>• 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</li></ul>	Stanford, CA
Sep 2019 – Mar 2020	<b>Graduate Teaching Assistant</b> <i>Stanford University – Department of Civil Engineering</i> <ul style="list-style-type: none"><li>• Teaching assistant for Professor Gregory Deierlein's graduate level structural analysis courses.</li><li>• CEE 280: Advanced Structural Analysis (Fall 2019)</li><li>• CEE 282: Nonlinear Structural Analysis (Winter 2020)</li></ul>	Stanford, CA

## INTERNSHIP EXPERIENCE

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| Jun 2018 – Sep 2018  | <b>Engineering Intern</b><br><i>Degenkolb Engineers</i>  | San Francisco, CA |
|                      | <ul style="list-style-type: none"><li>• Construction Means &amp; Method Group: designed excavation shoring, retaining walls, temporary bracing, and other construction-engineering tasks.</li><li>• Science &amp; 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</li></ul> |                   |
| Apr 2018 – Aug 2018  | <b>Design/Field Engineer</b><br><i>Adjeleian Allen Rubeli Ltd.</i>   | Toronto, ON       |
|                      | <ul style="list-style-type: none"><li>• Designed two-way slab systems (flat slab &amp; flat plates) for several residential high-rise projects in Toronto</li></ul>  |                   |
| May 2017 – Aug 2017  | <b>Structural Engineering Intern</b><br><i>Adjeleian Allen Rubeli Ltd.</i>   | Ottawa, ON        |
|                      | <ul style="list-style-type: none"><li>• 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 &amp; fit-up projects across Ottawa.</li></ul>  |                   |
| Sept 2016 – Dec 2016 | <b>Junior Construction Coordinator</b><br><i>PCL Constructions Inc</i>   | Ottawa, ON        |
|                      | <ul style="list-style-type: none"><li>• Junior Field coordinator at the \$269 million Government Conference Center Rehabilitation Project. Facilitated coordination efforts between M&amp;E, fire-separation, and interior walls/ceilings trades. Resolved daily construction interference and conflicts. Served as liaison between foremen, superintendents, and project managers</li></ul>   |                   |
| Jan 2016 – Apr 2016  | <b>Junior Project Manager</b><br><i>Public Services &amp; Procurement Canada</i>   | Ottawa, ON        |
|                      | <ul style="list-style-type: none"><li>• 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.</li></ul>  |                   |
| May 2015 – Aug 2015  | <b>Student Research Assistant – Structures Lab</b><br><i>University of Ottawa</i>  | Ottawa, ON        |
|                      | <ul style="list-style-type: none"><li>• 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</li></ul>  |                   |

## SKILL HIGHLIGHTS

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- 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

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- 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

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### SEG Student Representative

*Stanford, CA (2019-2020)*

- The Graduate Leadership Committee (GLC) is a group of graduate students whose purpose is to improve the graduate student experience within the Civil Engineering department at Stanford. The committee works with department administrations to implement change and strategies for improvement.

### Stanford Graduate Student Programming Board (GSPB)

*Stanford, CA (2018-2020)*

- The Stanford Graduate Student Programming Board (GSPB) strives to improve social interaction between graduate students by organizing, sponsoring, and coordinating, social and educational activities. Organized fun events every quarter and facilitated social interaction between graduate students. Events include boba tea socials, board game nights, movie nights, etc.

### Stanford Graduate Summer Institute (SGSI) Leadership Laboratory

*Stanford, CA (2019)*

- A weeklong course that focuses on interpersonal dynamics and how one can leverage his/her personality type to best influence outcomes, motivate others, and build productive working relationships. Practiced interpersonal skills and influence strategies through a series of experiential simulations and modules.

### VPGE Negotiation Workshop

*Stanford, CA (2019)*

- A three weeklong workshop offered by the VPGE that explores critical negotiation theory, and various negotiation tactics and styles. This course was highly participative and experiential with weekly case studies and negotiation scenarios. Improved critical communication skills and persuasion strategies. Learned how to leverage various negotiation tactics through practical exercises and role plays.

### Stanford Talk of the Farm Speaking Club

*Stanford, CA (2019)*

### Toastmasters Club #2102634 - Member

*Toronto, ON (2018)*

## **Engineers Without Borders – Water for the World Workshop Facilitator**

*Toronto, ON (2018)*

- Water for the World is a program run jointly by Engineers Without Borders (EWB), Ontario Society of Professional Engineers (OSPE), and the Toronto Public Library during National Engineering Month. It aims to educate K-12 students regarding issues surrounding global access to clean water. Over 100 interactive workshops are given at participating libraries and schools.

## **Habitat for Humanity – Pinery Trail Housing Build**

*Toronto, ON (2018)*

- Assisted in the construction of a residential housing unit in Toronto in support of poverty alleviation. Installed dry-walls, acoustic caulking, and vapor barriers

## **Rogers Cup – 50/50 Ticket Seller**

*Toronto, ON (2018)*

- Fundraised for charity (Tennis Matters, Boy's and Girl's club) by selling 50/50 raffle tickets during the Rogers Cup Tennis Tournament

## **National Troitsky Popsicle Bridge Building Competition**

*Montreal, QC (2017)*

- uOttawa team captain. Led the team toward a bronze medal finish out of 36 competing teams from universities across Canada. A tied-arch bridge was designed with SAP2000 and drafted with AutoCAD. The final product is a massive 9000+ popsicle bridge that sustained 5500 lbs

## **Undergraduate Student Member of the PEO, CSCE, OSPE, and ACI Ottawa Chapter**

*Ottawa, ON (2013-2017)*

## **Summer Tennis Camp Instructor**

*Toronto, ON (2012-2014)*

## **Other Volunteering Experiences**

- *Stanford New Graduate Student Orientation Event Volunteer (2019)*
- *MLSE 50/50 Ticket Seller at Raptor's Game (2018)*
- *Toronto Ice Fest Volunteer (2018)*
- *Ottawa Race Weekend – Water Station Volunteer (2017)*
- *Ottawa Race Weekend – Registration Desk Volunteer (2017)*