

Gaofeng Su

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SUMMARY

A civil engineering graduate who is interested in computer programming . Familiar with OO language such as C++, Java. Currently looking for intern/full-time software development positions. Eager to learn and apply programming knowledge to real life projects.

EDUCATION

University of California, Berkeley Extension, Coding Bootcamp **Nov 2019 – May 2020 (expected)**

University of California, Berkeley **Aug 2018 - May 2019**
M.Sc. Civil and Environmental Engineering (Systems Engineering) GPA: 3.7/4.0

Technion - Israel Institute of Technology **Aug 2014 - Aug 2018**
B.Sc. Civil and Environmental Engineering - Cum Laude GPA: 91.3/100

TECHNICAL SKILLS

Computer skills: C/C++, Java, Python, HTML5, CSS, JavaScript, MATLAB

Software: AutoCAD, Revit, EPANET, HEC-RAS, MS Project, VICO office

HIGHLIGHTED ACADEMIC PROJECTS

Flight Path Optimization, University of California, Berkeley **Spring 2019**

- Used constrained finite time optimal control method for flight path (ORD airport to SFO airport) optimization.
- Formulated an aircraft model and implemented an optimal control algorithm in MATLAB.

Berkeley Campus Parking Distribution Optimization **Fall 2018**

- Optimized the campus parking distribution using Mixed Integer Linear Programming with a real data set.
- Compared the total parking time from two different greedy algorithm-based parking policies.

Water Pipeline Design with Evolution Algorithm (EA), Technion -Israel **Spring 2018**

- Studied about Evolution Algorithm optimization method and applied it to water pipeline design.
 - Programmed EA in MATLAB and tested for different scenarios.
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WORK EXPERIENCE

Research Assistant | CalUnmanned Research Lab, University of California, Berkeley **Sep 2019 - Present**

- Drone flight data extraction using SDK package in C/C++ provided by drone manufacture.
- SLAM (simultaneous localization and mapping) related topics research.

Graduate Student Instructor | University of California, Berkeley **Jan 2019 - May 2019**

- Assisted the course instructor and tutored students in System Analysis.

Intern | Gronner D.E.L Engineers Ltd | Haifa, Israel **Aug 2017 - Oct 2017**

- Participated in several infrastructure projects in Israel including bay port, railway, and highway construction.
- Provided project information summary and took charge of quantity take-off and pricing calculation.
- Checked contractors' as-built drawings and reported discrepancies to the manager.

Volunteer | Engineers Without Border, Israel | Technion - Israel **Dec 2015 – Aug 2018**

- Manufactured and installed a solar heating system consisting of recycle can in the Negev Desert, Israel
 - Researched and proposed potential heating solution.
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ACHIEVEMENTS

- **ENGINEER-IN-TRAINING (California): EIT 168002** **May 2019**
- **Technion President's List of Honor** **Fall 2016**