

# Gaofeng Su

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## SUMMARY

A systems engineering graduate interested in computer programming. Familiar with OO languages such as C++ and Java as well as web developing language such as HTML and JavaScript. Currently looking for intern/full-time software development positions. Eager to learn and apply programming knowledge to real life projects.

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## EDUCATION

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

**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

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## TECHNICAL SKILLS

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

**Software:** MySQL, MongoDB, ROS, AutoCAD, Revit,

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## 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 and processing using SDK package in C/C++.
- Building visual SLAM (Simultaneous Localization and Mapping) data collection system, and data processing with APIs in C++/Python.

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

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

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

- 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 recycled cans in the Negev Desert, Israel
  - Researched and proposed potential heating solution.
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## ACHIEVEMENTS

• **Technion President's List of Honor** **Fall 2016**