Max Jung

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WORK EXPERIENCE

SIEMENS: Systems Engineer Building Automation **03/2019 – Present**

> Designing unique Building Automation (HVAC) systems for projects ranging from $15K-$300K. Includes design of automation network architecture, mechanical system layouts, sequence of operations.
> Acting as lead technical engineering resource for sales, project management, and field programmers through duration of project cycle, and validating success of design in meeting customer needs.

PLENTY UNLIMITED: Systems Design Engineering Intern **07/2018 – 11/2018**

> Built Plenty's first Java Anylogic (self-taught) simulation models of automated manufacturing systems.
> Prototyped UI dashboards for Operations Team, and created/facilitated tests to monitor changes needed to improve user experience and increase farm harvest efficiency.
> Developed object-oriented MATLAB applets to reduce working hours of harvest laborers.
> Iteratively established an interdepartmental Process and Material flow system of Plenty's operations through data collection and analysis using Visio/Excel/ MATLAB.
> Translated farm financial goal into yearly produce output by identifying the necessary engineering and operations requirements. Reported these requirements to engineering leads.

UC BERKELEY ENGINEERING: Graduate Student Instructor **01/2018 – 05/2018**

> Taught and led discussion on introductory to advanced MATLAB computer programming concepts (numerical methods, iteration, recursion, object-oriented) to 60+ undergraduate students.

UC BERKELEY ENGINEERING: Graduate Student Researcher **06/2017 – 05/2018**

> Researched and designed new singleton thermistor sensors for measuring flow rate of tree sap.
> Assembled these prototype sensors and verified the viability of a single thermistor flow rate sensor.

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY ENGINEERING

M.S. Systems Engineering **08/2017 – 05/2018**

> 3.83/4.0 GPA - User Interface Design, Sensors and Data Interpretation, Control and Information Management, Human Centered Design, Interactive Device Design, Final Project: IoT Available Seat Tracker, Optimizing Nanjing Metro System

B.S. Civil and Environmental Engineering **08/2013 – 05/2017**

> Design Manager for UC Berkeley's CAL Seismic Competition Team
> Computer Science 61A (Python), Project Management, 3 Dimensional Modeling (SolidWorks), Cyber Physical Systems (Arduino, Sensors, HTML), Final Project: IoT solar-powered cooker

SKILLS & INTERESTS

COMPUTER SKILLS

> Languages: MATLAB, Python, Java (Anylogic and Android Studio)
> Programs: Adobe Illustrator, SketchUp, Fusion 360, AutoCAD, Microsoft Suite

PROTOTYPING SKILLS

> 3D Type A Printing, Laser Cutting, PCB milling + Eagle, Electronic Soldering, Arduino

PERSONAL INTERESTS

> Teaching, taking online WebDev courses, Football/soccer, Reddit, C. Nolan movies, animations