(214)577-1331
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Benjamin Weber

Electrical and Computer Engineer

Undergraduate student with a dedication to quality, efficiency and innovation in the workplace. Extremely passionate about software and hardware engineering and always eager to develop new knowledge within the field. Work experience in different fields which broadened skill sets and world outlook.

Education

B.S.E. in Electrical and Computer Engineering, *Princeton University*   Apr 2027

Experience

Drone Challenge   2022 — 2023

Fusion360, Betaflight, Circuit Design and Soldering

- Led a team of students with no previous experience to successfully develop a fully operational, open-source quadcopter drone, in order to fulfill maneuverability and payload delivery challenges for the Technology Student Association competition
- Designed drone body from scratch in Fusion360, 3D-printed drone body as creative solution to keeping cost as low as possible and allow reproducibility
- Designed new electromagnetic payload system which was triggered by RF receiver and transmitter
- Learned power optimization and distribution to power flight control boards, motors and payload systems off of single LiPo battery while maintaining flight systems for minimum of ten minutes
- Scored tenth place nationally, at nationals had to redesign electromagnetic payload system in under an hour due to rules conflicts between state and national competitions, still managed to deliver payloads

Hoop House Sustainable Farm   2021 — 2023

- Founded with two students as an interest project about implementing sustainable farming techniques on school campus
- Designed and built using spare/leftover parts from campus facilities a functioning hydroponic, aeroponic, and dutch bucket systems to grow variety of different plants
- Designed automatic nutrient addition system using solenoid valves, which only needed to be hand refilled every two weeks, allowing automation of the system up until harvest
- Donated all harvested plants were to a local soup kitchen.

Estate Genius Software Development Intern   Nov 2022 — Jun 2023

- Automated the process of filling out legal documentation by combining python scripts and .docx markup
- Learned legal terminology to effectively make distributable client interviews which properly convey meaning of sensitive documentation
- On team of initial employees to help startup company at startup by delivering automated documents for law firms

Chick-fil-A Assistant Director of Facilities Maintenance   Jul 2021 — Nov 2022

- Responsible for running shifts, hiring, and management of 100+ employees as well as $40,000 in daily finances
- Promoted to management position in first six months
- Learned to work on HVAC systems, as well as networking maintenance for corporate systems
- Developed excellent time-management skills balancing 30 hour weeks plus high school workload

Awards & Honors

Boy Scouts of America
Eagle Scout; service project was $4,000 landscaping project with custom irrigation system for local church

Princeton University
QuestBridge National College Match; full-ride awarded to high-achieving low-income students across the U.S

Pine Crest High School
Coleman Prize; senior year tuition awarded to one student who represents the mission of the school, not based on financial need,

Principal's Award: Given to one student at graduation who served as a campus leader and exceptional voice in shaping future programs

Skills

Comfortable With: Java, Python, Github, VS Code, Microsoft Office, Customer Service
Have Worked With: Docker, Fusion 360, ShopBot CNC Router, Linux, Circuit Soldering, Circuit Design