Dylan Litherland

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EDUCATION

UNIVERSITY OF FLORIDA

GPA: 3.40

Bachelor of Science Electrical Engineering - Dec 2021

Awards & Honors

- Cum laude

ADDITIONAL SKILLS

KiCad & Altium

LTSpice

MATLAB

Fusion 360, SOLIDWORKS & Rhinoceros

SimScale & Photopia

Waveforms/Oscilloscope

Microsoft Office

Python

GitHub

C, C++, Assembly, RTOS Systems

CERTIFICATIONS

SOLIDWORKS Certification

Texas Engineer in Training (EIT) 75783

AWARDS

Math Olympiad State Champions

Skills USA - VEX Robotics State Champion

First - Tests of Engineering Aptitude, Mathematics and Science (TEAMS)

EXPERIENCE

PRODUCT/SALES ENGINEER

Cognituv, Spicewood, TX / Jun 2022 - Apr 2024

- Drafted 10+ products with two other team members constructed of sheet metal, power electronics, and wireless connectivity with 7 going to fabrication with deliveries.
- Established and maintained 30+ vendor partnerships, supply chains, and manufacturing processes.
- Selected 100's of electronic and hardware components for products comparing cost, function, and safety.
- Simulated UV-C irradiance using ray tracing to ensure dosage accuracy and proving the need for 1.5x more energy.
- Surveyed and Quoted 50+ UV-C disinfection projects ranging from $10k-$500k including customer return on investment on a custom-built calculation tool.
- Developed customer relationships and provided troubleshooting support leading to >50% repeat customers.

SOFTWARE ENGINEERING INTERN

Collins Aerospace, Melbourne, FL / May 2021 - Aug 2021

- Learned how to use Xilinx IDE and program the development board in 2 weeks by making I/O and UART test code.
- Compared and documented changes on over 1000 lines of old PCIE driver code, verifying and relaying FPGA firmware changes needed for merging into the new firmware.

CONSULTATION AGENT

BestBuy, Port Charlotte, FL / Sep 2017 - Apr 2018

- Sustained less than 1 percent of questions from coworkers about repair instructions by writing concise and thorough notes out of hundreds of repairs.
- Achieved top 3 in sales for 4 months by demonstrating value of total tech support plan for computer repairs.

OWNER

Spark Bark, North Port, FL / Jan 2016 - Jan 2018

- Approved for a loan of $2k by presenting the full business plan with financials and market analysis.
- Trademarked the company name and logo created by a contracted local artist.

TEAM LEAD

Vex Robotics/SkillsUSA, Carbondale, IL / Jan 2012 - Jan 2016

- Built and programmed 6 robots (chassis, gear ratios, grabbing mechanisms, drive train), researched cost, and created 3D models before competition deadlines.
- Delegated modules for development to 3 other teammates and continued support by coordinating research and assigning build partners.