SPARKY SUNDEVIL8

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SUMMARY

Senior mechanical engineering student with internship experience in medical device manufacturing and product development. Project experience includes applications of software and hardware. Seeking full-time position May 2020 in medical device manufacturing, pharmaceutical production, and other FDA-regulated industries.

EDUCATION

B.S.E., Mechanical Engineering Graduating May 2020
Arizona State University, Tempe, AZ 3.82 GPA
Barrett, The Honors College
Relevant coursework: Hardware Design Languages and Programmable Logic, Advanced Excel in Business

TECHNICAL SKILLS

Data Analysis and Statistics: JMP, Minitab
Design and Modeling Tools: SOLIDWORKS, LabVIEW, MATLAB, Microsoft Office
Programming: Python, C, C++
Certifications: National Instruments Certified LabVIEW Associate Developer (CLAD) – August 2019

PROFESSIONAL EXPERIENCE

Stryker Solutions, Phoenix, AZ: Research & Dev Development Intern May 2019 – Aug 2019

- Applied measurement system analysis (MSA) to qualify relocated test equipment (JMP, Python)
- Authored three technical reports for relocated packaging equipment, following IQOQPQ guides (JMP, Excel)

Med Apps, Scottsdale, AZ: Quality Engineering Intern May 2018 – Aug 2018

- Assessed equivalency of proposed alternate plastic packaging material (Minitab, Excel)
- Created and delivered presentations to train field sales representatives on new product features (PowerPoint)

ACADEMIC PROJECTS

Hand Cycle for Polio Victims Fall 2019 – Spring 2020
Collaborated in a team of three to design model of custom hand cycle for polio victims (SOLIDWORKS).

- Developed team schedule, including quality measurement for each major milestone (Microsoft Project)
- Ensured team compliance to Design Control Procedures according to Code of Federal Regulations (CFR)
- Recognized by faculty audience as "Best Presentation" out of 15 teams

Sensor for Quadriplegic Patients Spring 2019
Led team of three to design and develop a mouse-like device to allow quadriplegic patients to use websites.

- Assessed range-of-motion data to determine feasible solutions (Python)
- Created device to detect muscle flexion in neck to control the mouse click (Arduino, FPGA)

OTHER WORK EXPERIENCE

Arizona State University, Tempe, AZ: Tutor (10 hours/week) Aug 2018 – May 2019

- Tutored 10-15 undergraduate engineering students per week in MATLAB programming and math coursework

Kohl's, Gilbert, AZ: Sales Associate, Jewelry Department (16-24 hours/week) Aug 2017 – Dec 2017

- Achieved #2 highest selling associate within one month of hire date

ACTIVITIES

ASU Society of Women Engineers (SWE) Aug 2017 – Present
Multiple leadership roles, including vice-president and industry relations chair (300 members, $75k annual budget)

- Tutored 10-15 undergraduate engineering students per week in MATLAB programming and math coursework
- Organized 2018 annual conference participation, including 8 student poster submissions