**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**; Business Minor 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 Sustainability Solutions, Tempe, AZ: Research & Development Intern**  May2019 – 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):

* Increased industry events from 3/semester to 8/semester, by engaging with industry for specific dates
* Organized 2018 annual conference participation, including 8 student poster submissions