Dante Roush

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Education

Arizona State University – Ira A Fulton Schools of Engineering | Fall 2016 – Present
Bachelor of Science in Engineering (Robotics Focus) | Expected Graduation May 2020
Barrett, The Honors College
Thesis: Utilizing Force Sensing to Assist in Quadrupedal Robotic Locomotion | GPA: 3.50

Technical Skills

Design and Applications: Cadence, LogixPro, Solidworks, MATLAB, Studio 5000
Robotics: PID Control, Path Planning, Forward/Inverse Kinematics, Machine Learning, Image Sensing and Analysis Additive
Manufacturing: Stereolithography, Material Jetting, PLA Extrusion, Powder Bed Fusion
Programming: C, C++, Python, PLC Ladder Logic
Machining/Prototyping Experience: Lathe, Mill, Laser Cutter, Vinyl Cutter, Printed Circuit Boards, Soldering

Experience

Manufacturing Intern | June 2019 – August 2019
General Atomics – San Diego, CA
- Developed a database of CAD representations of CNC cutting tools for automated procedures
- Reduced workload for tool-prep workers, increasing efficiency and reducting machine down time
- Project saved approximately 2 hours of labor per machine per day, saving nearly $100,000 per month

Barrett Community Assistant | May 2017 – May 2019
ASU University Housing – Mesa, AZ
- Initiated conversations and established rapport with a diverse community of first-year honors students
- Provided individualized assistance to resolve crisis situations, resulting in a safer and happier community
- Achieved the highest percentage of returning students in on-campus housing

Undergraduate Teaching Assistant: Engineering Statistics | January 2019 – May 2019
Ira A. Fulton Schools of Engineering – Mesa, AZ
- Provided multifaceted teacher/classroom support regarding statistical analysis methods
- Retooled, presented, and administered a practical project teaching real-world application of statistics
- Created and fostered communication channels for struggling students to get additional help

Research

Integration of Automation Systems – *Mr. Jerry Gintz* | May 2018 – November 2018
ASU Polytechnic–Mesa, AZ
- Identified and tagged industrial automation control components and systems
- Programmed a PAC using two IEC 61131-3 standard languages
- Integrated an ASCII device and a SCADA system with a PAC application

Undergraduate Student Researcher – *Dr. Angela Sodemann* | May 2018 – November 2018
ASU Fulton Undergraduate Research Initiative –Mesa, AZ
- Automated the motions of an animatronic robotic head to create human-like facial expressions
- Analyzed and predicted the effects of robot facial expressions on human subject's decision making
- Presented findings to engineering staff at FURI Research Symposium

SolarSPELL Build Day Organizer – *Dr. Laura Hosman* | Fall 2018
ASU – Design for the Developing World
- Overhauled the digital library assembly line processes for 40-person volunteer staff
- Authored the Build Day Write-Up for the nonprofit organization's official website
- Co-authored "Build Day Manual" for next class, documenting procedures and organizational information

Leadership/Activities

- **Conference Housing Chair** – RHA Regional Business Conference | February 2019 – Current
- **Barrett Mentor Coordinator** – Barrett, the Honors College | May 2019 – Current
- **Head Youth Soccer and Flag Football Referee** – Christs Church of the Valley | March 2016 – Current
- **Century Hall Community Council President** - Residence Hall Association | August 2018 – Current
- **Vice Chancellor of Operations** - National Residence Hall Honorary | March 2018 – May 2019
- **Project Coordinator** - Society of Manufacturing Engineers (SME) | January 2018 – May 2019

Relevant Other Bits for Resume Fodder

Class Name – *Professor*   Semester YEAR
ASU Polytechnic–Mesa, AZ
- Bullet Point #1
- Bullet Point #2
- Bullet Point #3

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ASU Polytechnic–Mesa, AZ
- Bullet Point #1
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