Grayson Moyer

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EDUCATION

Carnegie Mellon University ~ Pittsburgh, PA   May 2022
B.S. in Electrical and Computer Engineering, additional major in Robotics
- QPA: 4.0
- **Highlighted Courses**: Human Robot Interaction | Unity Game Engine | E-textiles | Android App Development | Machine Shop Practice | Laser Cutting & Engraving

WORK EXPERIENCE

GE Transportation, a Wabtec Company ~ Erie, PA   Summer 2019
Electronics Integration Engineering Intern
- Designed panel and adapter wire harness for mass retrofitting of a new processing unit in legacy locomotives
- Fixed and improved wire harness database comparison tool to report mismatches between design and sourcing
- Leveraged database comparison tool to prevent mistakenly duplicated harnesses from being purchased
- Reorganized BOM structure of the main controls cabinet across primary domestic customers
- Served as Chair of Intern Community Service Committee coordinating 250+ manhours of volunteering

Biorobotics Lab ~ Robotics Institute, Carnegie Mellon University   2018-Present
Research Assistant
- Fabricate PCBs and design and develop mechanisms to support lab projects including tactile force sensor and giant hexapod
- Exploring tendon-driven robotic mechanisms to eventually design modular prototype system

Crossroads Consulting, LLC ~ Johnstown, PA   2015-2018
Engineering Intern
- Worked on independent mobile application development project
- Supported design projects using Autodesk Inventor, Arduino, Raspberry Pi, 3D printing, and CNC fabrication

SKILLS & INTERESTS

Software: Autodesk Inventor, SolidWorks, Visual Studio (Xamarin/Unity), Altium Designer, PSoC Creator, MS Office, G-Suite
Programming Languages: Proficient in Java, C, C++, C#, Python, MATLAB, VBA, SQL, and XML
Fabrication: X-Carve (CNC), 3D printing, Laser Cutting, PCB fab
Athletics: Basketball, Soccer, Biking, Hiking

ACTIVITIES & LEADERSHIP

Technical Opportunities Conference: Corporate Relations Committee Chair	2019-Present
Carnegie Mellon Drone Club: Outreach Coordinator	2019-Present
Carnegie Mellon Solar Racing: Design Lead (optimization sub-team)	2018-Present
SDC Buggy Team: Pusher (B-team)	2018-Present
Carnegie Mellon Rocket Command: Club Member (payload sub-team)	2018-Present
Real World Engineering Program: Participant in Boston and Silicon Valley Programs	2019
HackCMU 2018: Participant (proof-of-concept social media phone app)	2018
Outdoor Odyssey Camp for At-Risk Youth: Mentor, Junior Counselor	2016-2017

AWARDS & HONORS

Mousetrap Car Challenge Champions (Intro to MechE course)	2019
National Merit Scholarship Finalist	2018
Johnstown Rotary Club Scholarship	2018
Challenge Program STEM Award	2017, 2018