Jacob Fuher

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Education

University of Michigan, Ann Arbor, College of Engineering   December 2020
- Bachelor of Science in Electrical Engineering (GPA 3.1)

Schoolcraft College
- Dual Enrolled and Guest Student (GPA 4.0)

Employment

University of Michigan | Undergraduate Researcher   Summer 2020
- Selected as participant in Summer Undergraduate Research in Engineering (SURE) Program
- Executed statistical analysis of large data sets using SPSS regarding students' perceptions and self-efficacy of entrepreneurship
- Compiled three large data sets for quantitative analysis
- Conducted a systematic literature review on the assessment and evaluation of experiential learning
- Developed curricula for a BME course incorporating self-directed, active, and collaborative learning

University of Michigan | Summer Conference Assistant   Summer 2019
- Managed coordination and support of client groups/guests to ensure effective use of the building and resources while ensuring a pleasant stay for clients/guests

iD Tech Camps | Instructor   Summer 2018
- Taught Minecraft Game Design, Unreal Engine Level Design, and Code Apps & Develop Games with C++ at the University of Michigan location to K-12 students

Ford Motor Co. | Ford HSSTP Intern   Summer 2016
- Worked with system shifter team at Powertrain Engineering Driveline & Manufacturing
- Attended courses at the Ford Research and Innovation Center

Schoolcraft College | Kids on Campus Aide   2015-2017 Summer
- Taught Minecraft Modding, Web Design, and GameMaker to K-12 students

Teamwork

Transforming Engineering Education co-Laboratory (TEEL)   2020-Present
- Qualitative analysis of large data set regarding students' perceptions and self-efficacy of entrepreneurship
- Co-writing paper on experiential learning in engineering education

Institute of Electrical and Electronics Engineers (IEEE)   2018-Present
- President, University of Michigan Student Branch   2020
- Previous positions held: VP Finance, VP operations, Membership Chair

Crowds and Machines (Croma) Lab   2019-2020
- Research on improving the quality of Senior CS students' code by collecting in-class data via a simple coding assignment and performing a subsequent qualitative analysis
- Provided feedback to and tested multiple HCI-focused projects

Michigan Balloon Recovery and Satellite Testbed (MBuRST)   2019-2020
- Participated in product research for solar panels, the successful deployment and recovery of our satellite payload, presented to corporate sponsors in bi-annual meeting, and wrote and refined multiple sections of our safety and launch manual
- A subsidiary of the Student Space Systems Fabrication Laboratory (S3FL)

Skills/Courses

- MATLAB, LabVIEW, Multisim, Minitab, SPSS, Fusion 360, C++
- Microsoft Office and Google Suite
- Google Ads Fundamentals Certification
- Technical Communication for Electrical Engineers
- Circuits, Electromagnetics, Semiconductor Devices, Signals and Systems, Optics, Photonics
- Probabilistic Methods, Engineering Statistics, Analysis of Societal Networks, Controls
- Engineering Education, Ethics, Philosophy

Additional

Boy Scouts of America, Troop 54, Novi, MI   2010-2017
- Eagle Scout   June 2016
- Elected into the Order of the Arrow, Scouting's National Honor Society   August 2012