

Peter Holtmann

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Education

Missouri University of Science and Technology	May 2022
Master's of Science in Engineering: Electrical Engineering	GPA: 4.00
Bachelor's of Science: Electrical Engineering	GPA: 3.80

Professional Experience

Research & Development Intern <i>Sandia National Laboratories</i> <ul style="list-style-type: none">Designed schematics and layout for multi layer interface board.Created component schematics and footprints according to board requirements.Implemented and verified algorithm to increase accuracy of 6-DOF simulations.	May 2021 – Present <i>Albuquerque, NM</i>
Undergraduate Research Assistant <i>Lightwave Technology Laboratory</i> <ul style="list-style-type: none">Conduct experiments using resonator probe to develop real-time sensor testing for SARS-CoV-2.Work with Femtosecond Laser systems to fabricate Fiber Bragg Grating strain sensors.Plan and execute gallium corrosion tests on aluminum alloys common to military structures.Assist in the research of strain sensors to detect traumatic brain injuries.	October 2020 – Present <i>Rolla, MO</i>
Electrical Engineering Intern <i>Paul Mueller Company</i> <ul style="list-style-type: none">Engineering Lead on a new product line that utilized electric immersion heaters rather than plant steam.Streamlined Bill of Material production and Inventory Management system through use of Visual Basic and python.	May 2019 – Aug. 2019 <i>Springfield, MO</i>
Webmaster <i>Missouri S&T - Intelligent Systems Center</i> <ul style="list-style-type: none">Modernized the web presence of the research center.Hired and trained new student staff to maintain website.	July 2020 – Present <i>Rolla, MO</i>
Senior PRO (Preview, Registration, & Orientation) Leader <i>Missouri S&T - New Student Programs</i> <ul style="list-style-type: none">Planned, budgeted, and executed a week-long orientation for 1200 incoming freshmen.Created and presented an hour long presentation about mental health to over 1200 freshmen.	April 2019 – Present <i>Rolla, MO</i>

Leadership

Phi Kappa Theta Fraternity | *President* | April 2019 – April 2020
Student Involvement | *Greek Ambassador* | Aug 2018 – Jan 2019

Honors

Missouri S&T | *Dean's List* | Aug 2017 – Present
Mu Alpha Theta Math Honor Society | *Inductee* | Aug 2017

Volunteering

PKT Fraternity | *Service Chairman* | April 2020 – Present
Mercy Hospital | *Outstanding Service Award* | May 2017

Presentations & Projects

New Student Programs | *Miners Think* | Aug 2020
Senior Project | *Smart Baseball* | Aug 2020 – Present

Skills

MATLAB | C++ | Python | Git | Altium | AutoCAD | MultiSim | Quartus | Standard Lab Equipment