MACKENZIE HAWKINS

🙎 Canal Winchester, Ohio 43110 📞 (330) 604-3846 🖂 mjh137@zips.uakron.edu

PROFESSIONAL SUMMARY

Capable RF Engineer with **7+ years of professional industry experience** working in challenging fast paced environments. Possesses wide range skill set including **RF**, **SI**, **electronics, simulation, programming, and mechanical**. Excited about opportunity to take next career step.

🖻 EXPERIENCE

🗞 Battelle Memorial Institute | Columbus, OH

March 2020 - Current

RF | CE Engineer III

- Principal Investigator of 6 successful government sponsored programs
- **Designed and Developed** 14 successful mixed signal high speed PCBs (6+GHz) from high-level program requirements to delivered demonstrable systems
- Led lab testing and performance measurements of custom RF system hardware including Measurement of S-parameters (conducted and radiated), EIRP, NF, radiation pattern, thermal, and power.

IEC Infrared Systems | Middleburg Heights, OH

September 2014 - March 2020

Electrical Engineer

- **Designed and Developed**: custom PCBs, system configuration schematic drawings, wire harnesses, and PCB test fixtures from concept to product
- Performed new product Performance and Validation Testing
- Created Process Documentation and test procedures for production products and Reviewed engineering change orders

OpenPPG

September 2018 - April 2019

Freelance Engineer

- Designed and Developed custom battery monitoring system PCBs
- Consulted in system architecture design
- Developed prototype evaluation software for custom PCBs

The University of Akron | Akron, OH

August 2018 - May 2019

Graduate Assistant

- Assisted **Teaching** of undergraduate students embedded systems and basic electrical engineering
- Conducted office hours tutoring
- Graded course assignments and Managed grade-books

Saint-Gobain Crystals | Hiram, OH

🖍 SKILLS

- SI/PI and ECAD Simulation: Ansys Slwave, Keysight ADS, Keysight Genesys, QUCS, LTSpice
- Test and Measurement: Vector Network Analyzer, Spectrum Analyzer, Oscilloscope
- PCB Design: Altium, KiCad, Eagle Cad, Easy-PC PCB CAD
- Programming: Python, Matlab, C, MAT
- Math CAD: MATLAB, Mathematica
- ERP Software: Macola, Agile
- General: Program Planning, Trouble Shooting, Time Management, Engineering Corrective Actions

May 2014 - August 2014

Electrical Engineer

- Tested quality and performance of scintillators and Documented processes
- Designed and Constructed subsystems for production
- Serviced and Maintained test equipment

Univ. of Akron Research Foundation | Akron, OH

February 2014 - April 2014

Freelancer Engineer

- Designed hydroponic growing station for commercial use
- Designed hydroponic lettuce bowl for consumer use

EDUCATION

May 2019

Master of Science (M.S.) - Engineering Management

The University of Akron, Akron, OH

- Grade Point Average: 3.795 / 4.0
- Technical Electives: Optical Electronics & Photonic Devices, Electrical Properties of Materials and Nanostructures, Information Theory, Advanced Analog Circuits & Systems, Digital Signal Processing, VLSI Circuits & Systems, Stochastic Processes & Communication

May 2018

Bachelor of Science (B.S.) - Electrical Engineering

The University of Akron, Akron, OH

- Grade Point Average: 3.388 / 4.0
- Technical Electives: Digital Communication, Power Electronics, Embedded Scientific Computing, Embedded Systems Interfacing, VLSI Design, Wireless Communications
- Recipient of the 2018 Outstanding Student Engineer in Electrical Engineering Award
- First Place Recipient of the 2018 Dr. C. F. Chen Student Award for Design Excellence

ADDITIONAL INFORMATION

Please visit my website for additional information about my experience, education, and projects. https://www.mackhawkins.com/