

MICHAEL ROGERS

(605) · 216 · 3712 ◊ michael.rogers@mines.sdsmt.edu

131 Adonia Lane ◊ Rapid City, SD 57701

EDUCATION

South Dakota School of Mines and Technology

B.S. Electrical Engineering

Graduating May 2020

GPA: 3.60

- Vice President of IEEE Student Chapter
- Secretary of Eta Kappa Nu Honor Society

EXPERIENCE

Wurth Electronics Midcom Inc.

Electrical Engineering Intern

Summer 2018

Watertown, SD

- Developed an integrated component evaluation and reliability testing system for parts in extreme temperature environments
- Wrote software for testing control with GUI that used serial communication for all hardware operation and live monitoring of test results over extended periods of time
- Designed USB powered and serially controlled analog multiplexing circuitry for testing multiple parts and monitoring RTD probes
- Gained experience with high frequency measurement using oscilloscopes, LCRs, and network analyzers
- Cross-sectioned and analyzed parts to assess failures
- Modified excel workbooks by creating tools for automation of importing, exporting, and visualizing test data
- Oversaw all 3D printing work-flow including equipment maintenance, pre-production part prototyping, and documentation

City of Aberdeen Public Works

Seasonal Employee

Summer 2016 & 2017

Aberdeen, SD

- Worked construction repairing, maintaining, and updating water distribution infrastructure
- Learned inventory logging, heavy equipment operation, and scheduling

TECHNICAL SKILLS

Computer Languages

C/C++, Python, C#, Visual Basic, HTML, CSS, Javascript, \LaTeX

Computer Software

LTSpice, ADS, PSpice, KiCad, MATLAB, Simulink, Excel, Visual Studio, Linux

Experience With

Data Collection and Analysis, Signal Processing, Image Manipulation, Measurement Automation, Microcontroller Prototyping, USB HID Design, Web Apps, IoT, Winform GUI, 3D Modeling and Printing, Technical Marketing Documents, Electronic Equipment Calibration