



Kyle Kelly

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Electrical engineer with a strong technical work background in electronic design and practical project experience with the C and Python programming languages.

Technical Work Experience

Electrical Engineer, ATR Corp.

April 2017 - Present

- Used image processing methods in MATLAB for analysis and object detection

Electrical Engineer, Tetracore Inc.

June 2013 - July 2015

- Lead Electrical Engineer for the electronic design and PCB layout of a centrifuge device
- Reviewed schematics and board layouts for correct circuit logic and good layout practices
- Worked to ensure a medical device met FCC and CE regulatory compliance standards
- Collaborated with Manufacturer and Mechanical Engineer to design for manufacture
- Provided electrical and mechanical debugging support on all medical devices

Project Experience

Vehicle Security Research & Independent Study, UMD with Ford June - December 2016

- Worked with UMD faculty and Ford advisors to manage a team of undergraduate students
- Developed an architecture in Python to display vehicle data in a lab in real-time
- Wrote firmware in C/C++ for Ford's hardware to investigate vehicle security vulnerabilities
- Managed the creation of an Android application that leveraged a Ford vehicle dataset

Education

University of Maryland: A. James Clark School of Engineering
M.S. Electrical Engineering

College Park, MD
May 2017

The Ohio State University: College of Engineering
B.S. Electrical Engineering

Columbus, OH
December 2012

Skills

Programming Languages:

- C
- Python

Software:

- OrCAD
- MATLAB

Laboratory:

- Soldering
- Debugging with an oscilloscope