

# Daniel R. Murtha

## Skills:

C/C++  
Python  
JavaScript  
C# .Net Classic/Core  
Haskell

Eagle Scout  
AWS Cloud Development  
Embedded Systems

GitHub: [github.com/Demonslyr](https://github.com/Demonslyr)



## EDUCATION

University of Kansas; Bachelor of Science in Computer Engineering GPA 3.33  
Kansas City Kansas Community College; Associates of Science 2010

Graduated 2016  
Graduated 2010

## Professional Experience

**VinSolutions, Software Engineering Intern, Contractor, Junior Developer**  
Mission, KS 66202

May 2015 - Present

- Developed .Net web application with a react front end to help automate manual deployments that were costing the company thousands of dollars per year in lost dev time.
- Expanded and Maintained a Developer portal used by 18 dev teams which enforced and managed the process of application deployments and provided a dashboard for a near real-time overview and history of deployments and application automation.
- Took initiative to Develop a service layer for the Developer Portal to replace our integration with Zapier which increased portal responsiveness and reduced costs paid to Zapier.
- Developed the companies first AWS based api for storing data in the cloud with

**University of Kansas, Undergraduate Research Assistant**  
Lawrence, KS 66045

June 2014 - May 2015

- Helped to replace FPGA based UAV radar signal processing system with an Nvidia Tegra K1 microprocessor.
- Developed a multi-threaded signal processing pipeline utilizing Boost and FFTW v3 libraries in C++.
- Performed benchmarking and pipeline optimization on code to meet real-time performance benchmarks.

**University of Kansas School of Engineering EECS Shop, Senior Student Hire**  
Lawrence, KS 66045

March 2014 - May 2015

- Operated and maintained the LPKF Circuit mill and provide technical support for Cadence/PSPICE.
- Maintained engineering labs and performed lifecycle replacements for hundreds of EECS workstations.
- Received and track shop inventory.
- Trained new and managed current student hires.

**Chief Information Office (G6), Computer Technician**  
Fort Leavenworth, KS 66027

July 2012 - March 2013

- Held a Secret level security clearance.
- Performed data recovery on users' computers; restoring their files to operations.
- Conducted training for users on multiple devices and subjects.
- Performed tasks involving Hardware/Software troubleshooting, SCCM management, System building, and Life Cycle Replacement.

## Awards & Certifications

Eagle Scout  
Profession Scrum Master I (Scrum.org)

## Projects

**JSho:** A JavaScript-based arcade style bullet swarm game utilizing HTML 5 canvas.

**RealViz:** An audio visualization program for streaming. Utilizes the Minum library with Processing2 on top of Java to generate real-time visualizer from audio inputs using Fourier transforms.

**UAV Radar Detection:** Augment UAV flight computer with object detection/tracking and collision avoidance utilizing an NVIDIA Tegra K1.

**Dev Ops FileSync:** C# .Net application to sync Dev and QA servers for application deployments at manual intervals or by automatic schedule.