Connor Flanigan

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EDUCATION

WORCESTER POLYTECHNIC INSTITUTE
BS in Robotics Engineering
October 2016 | Worcester, MA

LINKS

Github:// **TheFlanMan**
Github:// **CFlaniganMide**
LinkedIn:// **Connor-Flanigan**

COURSEWORK

Algorithms
Artificial Intelligence/Machine Learning
Unified Robotics I-IV (Actuation, Sensing, Manipulation, and Navigation)
Software Engineering
Mechatronics
Controls

SKILLS

LANGUAGES

Significant Experience:
Python • Matlab • Lua • C/C++
Some Experience:
Java • JavaScript • HTML
CSS • Labview • C#

PACKAGES AND TOOLKITS

Python:
NumPy • SciPy • TensorFlow • ROS
Matlab:
Signal Processing • Compiler • MEX

ANALYSIS

Signals Processing • Circuits • Software Profiling

SOFTWARE

Solidworks • ESPRIT • Pycharm • Eagle

PROFESSIONAL EXPERIENCE

MIDÉ TECHNOLOGY | Software Engineer

November 2017 - Present | Medford, MA

- Developed algorithms for sound event detection using spectral analysis and machine learning techniques
- Designed and developed software to convert, visual, and analyze Midé's proprietary, EBML-based file format
- Wrote SBIR contract proposals for the DoD involving spectrographic signal analysis, machine learning, and condition-based maintenance

IDEXX | Software Engineer

February 2017 – October 2017 | Westbrook, ME

- Developing a system and interface for running custom chemical assays using Catalyst machines
- Designing, building, and testing system to recreate various errors in manufactoring for product testing
- Designed circuits to monitor and breakout electrical systems in current products to test performance

WPI ROBOTICS LAB | Lab Designer, TA

July 2015 - September 2015 | Worcester, MA

- Developed software in C# for integration intoaserver to automate designs for a varietyh of products within a team of three developers
- Wrote instruction manuals for assembly and installation of Wasco's residential skylights

WASCO PRODUCTS | Engineering Intern

July 2013 - September 2013, June 2014 - September 2014 | Wells, ME

- Developed software in C# for integration into a server to automate designs for a variety of products within a team of three developers
- Wrote instruction manuals for assembly and installation of Wasco's residential skylights

PROJECTS

WPI | Gamified Music Learning System with VR Force Feedback for Rehabilitation

August 2015 - April 2016

Designed the mechanical and electrical systems for a custom haptic glove, utilizing a soft actuation system.

MIDÉ TECHNOLOGY | Endaq Analyzer

February 2018 - present

Sole developer of the Endaq Analyzer, a Matlab-based desktop application to open, visualize, analyze, and export Midé's EBML based IDE files. The Analyzer uses Matlab's Signal Processing Toolbox to render different frequency-domain signals, including FFTs, PSDs, and spectrograms. Something something packaged with the Matlab compiler and based in Matlab's GUIDE system, etc etc.