

Kyle Massie

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EDUCATION

Purdue University

Junior Computer Engineering, BS / GPA: 3.18

Expected Graduation: May 2025

West Lafayette, IN

Completed Coursework:

Advanced C Programming, Python for Data Science, Digital System Design Lab, Electrical Engineering Fundamentals, Physics

Current Junior Year Curriculum:

Data Structures, Object Oriented Programming, Signals and Systems, Computer Security, Networks, Microprocessor Systems, ASIC Design

EXPERIENCE

Aston Martin Racing Electrical and Data Acquisition Engineer Intern

- Conducted performance data analysis using Cosworth software tools
- Developed Bash scripts to streamline data transfer and analysis in MATLAB
- Created algorithms in C to display essential driver data to the ICD
- Assisted in calibrating and testing data acquisition systems: ECU & IPS
- Pivotal role in troubleshooting/resolving electrical & software issues during testing and race time

Heart of Racing Team

USA

May - July 2023

PROJECTS

Predicting NBA Games Using Different Machine Learning Classifications | Python

- Analyzed 6 seasons of NBA game stats to predict game outcomes from over 3M data points
- Utilized ridge, random forest, and logistic regression for classification
- Achieved prediction accuracy ~17% above baseline (73%)

Audio Equalizer | Hardware

- Designed, constructed, and tested an audio equalizer using filters and op-amps
- Presented technical report, theory, and design of components to professor

Purdue IEEE Software Saturdays | CSS, HTML, ReactJS

- Engaged in comprehensive web development training, focusing on advanced frameworks
- Developed a personal website, with ongoing enhancements to be incorporated

Circuit Design | MATLAB

- Created an algorithm for signal analysis: wave shape RMS, frequency, FFT plots
- Researched components to improve the clarity of signals

Huffman Encoder | C

- Implemented compression algorithms to reduce file size
- Used priority queues, binary trees, and several data structures for speed and memory optimization

Additional Projects

- Racing line optimization | Python
- Rolling Stock Predictor | Python & Excel
- Chess | C++
- JSON Decoder | C
- Spaceship lander simulation on STM32 | C
- Wordle | MATLAB
- DJ Drum Machine | Verilog

LEADERSHIP

Saratoga High School Boys Varsity Soccer + DeAnza Force Academy Soccer

Team Captain for a combined 7 years

Saratoga, CA

2009 - 2020

SKILLS & PROFESSIONAL DEVELOPMENT

Languages: Python, C, MATLAB, Verilog, Bash, C++, HTML, JavaScript, CSS, SQL,

Development Tools: ReactJS, GitHub & Git, Matplotlib, Numpy, Pandas, Cosworth Toolbox, Microsoft Office Suite