
Nathan D. Koenigsmark

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<https://github.com/nkoenigs>

Objective

- Work on cutting edge communication technology that combines knowledge of hardware and software
- Grow through experience and the embrace of real world challenges

Technical Skills

Expert: C (4 years) | Python (2 years) | Java (2 years) | Microsoft Excel (5 years) | X86 Assembly (2 years)

Proficient: MATLAB (5 years) | Verilog (2 years) | JavaScript (<1 year)

Education

University Of Maryland A. James Clark School of Engineering, College Park -
B.S. in Electrical Engineering

August 2015 - May 2020

A. James Clark School of Engineering, Specialized in communications and signal processing, took additional coursework in computer science

- Physical Principles of Wireless Communications
- Digital Signal Processing
- Advanced Electronic Devices

Projects/Experience

Autonomous Interacting Robot

Fall 2019

- Developed an autonomous robot as a member three man team
- smoothly tracked and followed a target in real time via python based computer vision
- Implemented responses to voice commands via amazon's alexa custom skill API
- Produced communication and cooperation with other teams robots via a flask server to achieve swarming behavior.

Heuristic Based Chess AI

Spring 2020

- Wrote a python based chess engine implementing alpha beta heuristics
- Devised a multi threaded approach to the problem