Ian Kranz

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Education

B.S. Electrical and Computer Engineering ● *Cornell University*

- Expected graduation: May 2019
- Cumulative GPA: 3.94

Relevant Coursework

- CS 2110: OO Programming/Data Structures
- CS 2800: Discrete Structures
- ECE 2300: Digital Logic/Computer Organization
- MATH 2940: Linear Algebra for Engineers
- CS 4410: Operating Systems
- ECE 3140: Embedded Systems
- ECE 3100: Probability and Inference
- ECE 4250: Digital Signal Processing

Professional Experience

Embedded Software Engineering Intern ● *Molex Inc.*

May 2018 - August 2018

- Developed software for embedded microprocessors on printed circuit boards.
- Designed digital systems for internal product testing.

Undergraduate Research Assistant ● *Cornell Robotic Personal Assistant Lab*

August 2016 - May 2018

- Worked with existing C and C++ autonomous flight libraries to program on-board computer for autonomous airship project.

Leadership Experience

Undergraduate Teaching Assistant ● *Cornell University*

January 2018 - May 2018

- Facilitated student learning in ECE 3140: Embedded Systems through holding office hours, formulating assignment feedback, and mentoring student programming projects.

Chief Layout Editor ● *The Cornell Lunatic*

August 2015 - Present

- Oversee and manage team of layout editors for semesterly campus magazine.

Relevant Skills

- Programming in Python, C, C++, MATLAB, SQL, and Java
- File system and socket programming
- Digital Signal Processing, Computer Vision, and Machine Learning in Python and C
- Android application programming and web development

Projects

- Raspberry Pi Programmable Robot

  Built small mobile robot and application programming interface in Python
- CT Scan Nodule Detection Classifier

  Developed image processing and Machine Learning application to detect possible cancer nodules in CT scans