

## Seeking for Full-Time Position/Internship Starting July 2021 Interested in Intelligent System, Robotics & AI Engineering Positions

Citizenship: F1 student with 3-year-long Optional Practical Training (no need for sponsorship, see [detail from USCIS](#))

### EDUCATION

<b>M.S. Electrical Engineering</b> , University of Cincinnati, USA	January 2020 - May 2022
* Willing to postpone for job opportunities	GPA 4.0/4.0
<b>B.S. Electrical Engineering</b> , University of Cincinnati, USA	August 2016 - May 2021
Mathematics and Embedded Systems minor, University Honors Program	GPA 3.9/4.0

### SKILLS

<b>Signals and Systems</b>	DSP, signal transformation methods, control system theory, linear system theory
<b>Intelligent Data Analysis</b>	Classification, clustering, anomaly detection and methods, association analysis
<b>Machine Learning</b>	Image processing, natural language processing and reinforcement learning
<b>AI Implementations</b>	Tensorflow, Scikit-Learn, OpenCV, Pandas, MATLAB
<b>Robotic Engineering</b>	Robotic controls, motion planning, simulation, sensor fusion and computer vision
<b>Software Development</b>	Git, Linux, C/C++, C#, Java, Python, MATLAB, SQLite database

### EXPERIENCE

<b>Brain Computer Interface (BCI) Research</b>	August 2019 - now
UC HCI Lab	<i>Cincinnati, OH</i>

- Apply data analysis methods to spatio-temporal electroencephalographic (EEG) data for classification problem
- Apply machine learning methods to detect human motor imagery intentions using post-processed data
- Assist on a multi-disciplinary robotic project that implements BCI, SLAM and NLP

<b>Electrical Engineer (R&amp;D Co-op)</b>	June - August 2019
Ethicon Endo-Surgery Inc.	<i>Blue Ash, OH</i>

- Designed and implemented a dynamic feed-back control system for NFC sensors
- Documented implementation methods, testing procedure and test results
- Presented projects and improvements to managers and peer Co-op students

<b>Engineering Teaching Assistant for Bio-Robotic Class</b>	October 2019 - April 2020
Biology Department, University of Cincinnati	<i>Cincinnati, OH</i>

- *Sensing in Animals and Robots* is an NSF funded program that teaches animal sensing by robotic implementations
- Implemented sensor fusion and computer vision algorithms requested by students, and gave lectures on simple algorithms
- Helped the professors organize the class and helped students understand the engineering portion of the class

<b>Electrical Engineer Team Member</b>	August 2019 - now
rLoop - a global, crowdsourced engineering organization	

- *Not-A-Boring-Competition* is run by the Boring Company that aims to build a novel tunnel boring system
- Participated as electrical engineer, in charge of the design and implementation of control system and navigation software
- Designed a modified leader-follower control scheme with pure-pursuit algorithm for the proposed final design draft
- Design proposal selected with 11 other finalists among 390 competitors

### PROJECTS

**Neuromorphic Computing Research** Developed an analog circuit system to simulate spiking neural signal

**Modular Garden Monitoring System** An embedded system that autonomously manages garden environment with friendly UI, modular design and wireless communication (Senior Capstone Project)

**Gas Tracking and Prediction App** Used web crawler that collects gas prices, SQL to maintain database and developed early-stage data analysis methods for price prediction

**Mask Detection Robot** Developing an autonomous system that detects and suggests face masks on a person by a neural network algorithm (ongoing)