

Aaron Martin

(224) 413-7735

asmartin@iastate.edu

[Aaron638.github.io](https://github.com/Aaron638)

Iowa Address: 1717 S Grand Ave. Ames, IA 50010

Illinois Address: 351 Sandhurst Ln. South Elgin, IL 60177

OBJECTIVE

Seeking a summer 2020 internship, or 2021 co-op opportunities.

EDUCATION

Iowa State University, Ames, Iowa - *Bachelor's of Science in Computer Engineering*

AUG. 2017 - EXPECTED DEC. 2021

PROJECTS

Hide and Seek App - Fall 2019

COM S 319 Software Development Practices

- Lead the frontend part of the team to build an **Android** app in **Java**
- Frontend team utilized **Android Volley** JSON requests with websockets to communicate with a server running SpringBoot made by the backend team
- Collaborative usage of **Git** with **CI/CD** workflow

Robot Navigation Software - Spring 2019

CPRE 288 Embedded Systems

- Embedded **C** programming on **ARM Microcontroller**
- Built text based CLI to communicate with robot using **UART**
- Accessed Microcontroller registers to interface with **PWM** servo, **IR** sensor, Ultrasonic sensor, and iRobot
- Navigation of robot in obstacle field

Facial Expression Music Suggester - Spring 2017

CPRE 186 Problem Solving

- Abstraction of OpenFace Action Unit data to human emotions with custom interpreter in **Java**
- **HTML/CSS** GUI interfaces with interpreter, and shows user a playlist based on the predicted emotion

SKILLS

Java - 4 yrs	C - 2.5 yrs	Python 3 - 1yr	Hardware	Linux	Web
Data Struct. and Algo.	Embedded Systems	PyGame	MIPS and some ARM Assembly	Learning Linux Programming and GNU Bash	HTML/CSS
Android	Arduino		VHDL Verilog		Learning JS and Node
JUnit testing					