

# John Kyung Han

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<http://JohnHan.blue>

## Education

B.S. Computer Engineering  
University of Illinois Urbana Champaign

August 2017 - May 2021  
GPA 3.9/4.0

## Relevant Coursework

ECE 411 Computer Organization and Design\*, CS 461 Computer Security\*, ECE 428 Distributed Systems\*, ECE 385 Digital Systems, ECE 391 Computer Systems Engineering, CS 374 Algorithms, ECE 342 Circuits, ECE 310 Digital Signal Processing, Automotive Electronics, ECE 210 Analog Signal Processing \*Fall 2020

## Experience

### *The Climate Corporation, Embedded Software Engineering Intern*

Summer, 2020

- Wrote C code for the embedded Linux FieldView Drive device
- Implemented diagnostic metrics for 6 different device processes to better understand performance of devices in the field

### *John Deere, Intelligent Solutions Group, Engineering Intern*

Summer, 2019

- Wrote embedded C++ code for the Section Control Application on the Gen4 Display in Deere tractors
- Utilized test driven development and code reviews to write production code living up to John Deere quality
- Developed a feature that will allow farmers to work more efficiently, producing greater yield with less material

### *Illini Solar Car, Business Lead*

2020 - Present

- Manage and fund one of the largest RSO budgets on campus
- Work with 50+ sponsors to form meaningful and mutually beneficial partnerships

### *Illini Solar Car, Electrical and Strategy Team Member*

2017 - Present

- Designed and built an end to end telemetry system: designed PCB and built a custom data visualization app
- Developed data processing and analysis scripts to better understand car performance and improve strategy
- Wrote C++ code and developed hardware for the car's custom battery management system, motor system, and dashboard

### *Illini Solar Car, President*

2019 - 2020

- Lead a team of nearly 100 students to design, fund, build, test, and race a road legal solar car
- Solved a variety of problems on a daily basis such as creating composite parts and forming a non-profit organization
- Worked with dozens of people inside and outside of the team to understand problems and find effective solutions

### *iRobotics Combotics, Member*

2017 - Present

- Designed and built a robot with a team for the Combotics battle bot competition

### *Owl Tutoring, Co-Founder, Vernon Hills, IL (owltutoring.co)*

2016 - Present

- Developed full stack website using AWS serverless Node backend, Vue frontend, and DynamoDB database
- Created automated scheduling and finance systems to manage and optimize day to day operations

### *Ascend Training, Intern*

2015 - 2016

- Researched and organized keyword data raising business to top of Google search results for relevant queries

## Projects

### *Custom Built Backpack*

Summer 2018

### *MIT Battlecode Competition, AI game*

January, 2017 and 2018

### *CS 196 Course Project, Node.js web application (r-place-game.herokuapp.com)*

Fall, 2017

## Skills

C++	RISC-V	Go	HTML/CSS	React	GitHub	KiCad	Fusion 360
C	Python	JavaScript	Node.js	MongoDB	Linux	DipTrace	SolidWorks
x86	SystemVerilog	Java	Vue.js	DynamoDB	AWS	SEO	Spanish

**Hobbies:** Skiing, Sailing, Windsurfing, Piano, and Biking