

# LUKE HURST

(989) · 277 · 7714 | hurstlj@umich.edu  
1114 Propect Ave, Ann Arbor, MI 48104

## EDUCATION

---

### University of Michigan, Ann Arbor

Bachelor of Science in Computer Science & Engineering

Classes Taken:

- EECS280: Programming and Data Structures
- EECS281: Data Structures and Algorithms
- EECS285: Practical Java Programming
- EECS370: Intro. to Computer Organization
- EECS376: Foundations of Computer Science
- EECS484: Database Management Systems

**GPA: 3.6/4.0**

*April 2017*

## EXPERIENCE

---

### TD Ameritrade

*Advanced Technology Intern*

May 2015 - August 2015

*Ann Arbor, MI*

- Collaborated with social media, business, and Advanced Technology teams to identify design requirements for an application that monitors social media traffic and aids customer service
- Designed a solution that makes queries to Twitter's REST API periodically and displays resulting tweets
- Implemented a custom web application client using JavaScript, HTML, and CSS and a custom server backend using JavaScript with Node.js and Express.js
- Communicated necessity of product to COO and business executives which led to product adoption
- Brainstormed future expansion such as mobile availability and multiple social media streams

### Michigan Autonomous Aerial Vehicles

*Developer*

September 2014 - Present

*Ann Arbor, MI*

- Developed computer vision and path planning software for controlling an autonomous aerial vehicle
- Implemented A-star path planning algorithm to enable obstacle avoidance for aerial vehicle
- Designed competitive strategy for prioritizing ground robots to target and interact with
- Competed in a 2015 International Aerial Robotics Competition and placed 2<sup>nd</sup> in United States division

### Recreational Sports

*Building Supervisor*

September 2013 - Present

*Ann Arbor, MI*

- Promoted in Fall 2015 from entry level position at the request of a current Building Supervisor
- Assisted patrons as a customer service representative by granting requests and handling complaints
- Handled cash and credit card transactions and was responsible for periodic tender summaries
- Developed leadership skills by creating a positive work environment and mentoring new employees

## TECHNICAL STRENGTHS

---

### Computer Languages

C++, C, Java, JavaScript, ARM Assembly

### Web Technologies

HTML, CSS, jQuery, JSON, AJAX, Node.js, Bower, Grunt

### Databases

Oracle SQL, SQL\*Plus, JDBC

### Tools

Linux, Git, SVN, Vim

## PERSONAL LINKS

---

### GitHub

[github.com/ljhurst](https://github.com/ljhurst)

### Website

[umich.edu/~hurstlj](http://umich.edu/~hurstlj)