

# Lucas Winkelman

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<https://firecannons.github.io>

## School Address

210C University Commons  
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Rolla, MO 65401  
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## Home Address

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Objective To obtain a career in Computer Science

Education Missouri University of Science and Technology (Missouri S&T)  
**B.S. Computer Science**

May 2020  
**GPA: 3.6/4.0**

### Courses:

|                            |                            |                                       |
|----------------------------|----------------------------|---------------------------------------|
| Data Structures            | Discrete Math              | Algorithms                            |
| Numerical Methods          | Theory of Computer Science | File Structures and Database Systems  |
| Intro to Computer Security | Intro to Operating Systems | Programming Languages and Translators |
| Software Engineering I     |                            |                                       |

Experience State of Missouri – Information Technology Services Division

Jefferson City, MO  
May 2017 - Aug 2018

### **UInteract Tax Team - Summer Internship**

- Worked on Data Change Requests (DCRs) in the UInteract database
- Changed Java and XML to fix website bugs
- Gained knowledge of the Struts web framework
- Completed training challenges to gain more experience with Java and SQL
- Collaborated with a team to meet agendas

Multi-rotor Robot Design Team

Rolla, MO

### **Software Division - Simulation Division**

Oct 2016 - Aug 2018

- Innovated to create 2-D Javascript simulation of the International Aerial Robotics Competition (IARC)
- Wrote many programs using neuro-evolution to find best algorithm of drone flight in the IARC, including using the NEAT method
- Operated the robotics simulator Gazebo to simulate the IARC in 3D for testing

Missouri S&T – ShamHacks

Rolla, MO

### **Competitor**

Feb 2018

- Created a website that allowed users to upload videos and transcribe them to text
- Wrote a HTML and CSS frontend and PHP with database backend
- Worked with a team to integrate the website and transcription program

|                 |                     |              |          |                   |                     |                |     |
|-----------------|---------------------|--------------|----------|-------------------|---------------------|----------------|-----|
| Computer Skills | MS Office<br>Python | HTML<br>Java | CSS<br>C | JavaScript<br>C++ | SQL<br>Code::Blocks | Git<br>Eclipse | PHP |
|-----------------|---------------------|--------------|----------|-------------------|---------------------|----------------|-----|

Honors & Activities Association of Computing Machinery SIG-Security  
Association of Computing Machinery SIG.com  
Christian Campus Fellowship