

# Thomas Veldhuizen

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## Education

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### Colorado State University, Fort Collins, Colorado

Bachelor of Computer Engineering      Minor: Computer Science

Expected Graduation: Dec 2022

#### Relevant Coursework:

- Intro to Microprocessors
- Digital System Design
- Computer Organization and Architecture
- Operating Systems
- Systems Security
- Java Data Structures and Algorithms

### Gymnasium St. Augustin, Grimma, Germany

Aug 2017- Jun 2018

### Loveland High School, Loveland, Colorado

Graduated: May 2017

## Skills

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- Java
- Python
- C++
- Microsoft Office and Google Workspace
- Linux and Windows Operating Systems

## Relevant Experience

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### Senior Design RAMbots

January 2022 - Present

- Apply several disciplines into create a quadrupedal robot
- Adapting a open source framework and reduce cost of production

### Class project nerf turret

August 2021 - December 2021

- Designed a nerf gun that could detect the environment and fire automatically
- Used a raspberry pi to receive input from various sensors or a computer over the internet
- Implemented multi-threaded programs to listen for various inputs

### Class project RFID pet door

January 2019 - March 2019

- Designed a pet door that would lock when not in use by reader and RFID tag on the pets collar

- Used an arduino to read the tag and unlock the pet door

**Programming team Lead FRC robotics team**

August 2016 - May 2017

- Participated in a team to build a robot for a regional competition once a year.
- Programmed controlled and autonomous operation of the constructed robot.

**Eagle Project**

June 2017

- Constructing a storage shed for a local non profit organization.
- Lead several members through using power tools and interpreting blueprints to create a shed.
- Organized fundraising to raise money for the project.

**Foreign Languages Skills**

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- Speak, read, and write Spanish
- Speak, read, and write German