

Theoden Swaby

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www.theodenswaby.com

Education:

Utah State University

3.55 GPA

Bachelor of Science, Electrical Engineering

May 2018

- Minors in Mathematics and Computer Science
- Dean's List Recipient
- **Relevant Courses:** Spacecraft Systems, Programming Languages, Digital Circuits, Technical Writing, Real-Time Processors, Embedded Real-Time Systems, Microcomputer Interfacing, Microcontroller Hardware and Software, Semiconductor Devices

Certifications:

STK Level 1 Certification

Skills and Abilities:

Technical Skills:

- Signal Processing
- Microcontrollers
- Machine Learning
- NoSQL
- Building Circuits
- Troubleshooting
- Cloud Computing
- Web Design
- Game Design
- Image Editing, Spriting

Computer Languages:

- C++
- Python
- Javascript, HTML, CSS
- C#, Java
- Lisp
- Haskell
- Prolog
- PostScript

Other Tools:

- Systems Tool Kit (STK)
- GitHub
- Visual Studio
- Amazon DynamoDB
- Amazon S3
- Unity, GameMaker Studio
- GIMP, Adobe Photoshop
- Microsoft Office Suite

Employment History:

Brenkman and Company

2018-2019

Programmer

- Created databases to streamline and automate business processes
- Used DynamoDB and Amazon S3 to organize, track, and update inventory for the client
- Interfaced with client's old system to work with the new system

Utah State University

Aug - Dec 2017

Teacher Assistant for Microcontroller Hardware and Software (ECE 3710)

- Assisted students with microcontroller labwork

Leadership & Involvement:

Team Wunjo (Game Development)

Mar 2020-Present

Main Programmer

- Worked with a team of artists and musicians to make a game
- Used Unity and C# to transform ideas into gameplay
- Made videos to explain new code to non-technical team members

USUSA Game Design Club

2016-2018

Founder and Club President

Utah State University

- Set up activities and lesson plans to discuss elements of game design
- Made small games to share with students at school activities

Haywire Robotics Team

2007-2010

Team Captain, Safety Captain, and Quartermaster

Pocatello, ID

- Led the Haywire Robotics team to the FIRST Robotics 2009 World Championships
- Mentor in Robotics Summer Camp (2008-2010)