

# Thor J. Hanson

Hampton, MN

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**Summary:** Seeking a fulfilling full-time career in either electrical or software engineering. Areas of interest are embedded hardware, embedded software, and software meant for Linux systems.

## Education

### North Dakota State University (Fargo, ND)

Bachelor's Degree in Electrical Engineering (expected graduation May 2020) August 2016-Present

Cumulative GPA: 3.69

Related Coursework:

Intro to C, Advanced Embedded Systems (in progress), Digital Design, Classic Controls, Modern Controls (in progress), Circuits II, Electronics II, Applied E'mag, Signals and Systems

## Work Experience

### John Deere Electronic Solutions (Fargo, ND)

Part-Time Student Worker (Software Department) March 2019-Present

- Rapidly learned Python, PowerShell, and Jenkins Groovy on-the-job.
- Wrote and modified Python plugins for existing test framework.
- Updated Python plugins from Python 2 to Python 3.
- Troubleshot failing Jenkins builds.
- Spotted efficiency issues and provided useful suggestions for time-saving workflow improvements.

Part-Time Student Worker (Electronic Design) March 2018-March 2019

- Carefully checked schematics for errors to maintain a high standard of quality.
- Functionally troubleshot and tested units for defects and design flaws to detect problems.
- Processed large amounts of data using a variety of software techniques.
- Learned real-world applications of knowledge on-the-job.
- Developed time management and scheduling skills, including working while a student.

### Randolph High School (Randolph, MN)

Technology Assistant Summer 2017 (seasonal)

- Reinstalled and configured Windows and other software on hundreds of machines.
- Worked with school faculty to solve hardware/software problems with computer equipment.

## Leadership Experience

### Mathew Living Learning Center Hall Government, NDSU

President 2018-19

- Assembled agenda for and chaired weekly Hall Government meetings.
- Facilitated discussion and completion of goals and delegated responsibilities accordingly.
- Represented Mathew Living Learning Center at weekly Residence Hall Association meetings.

Vice President 2017-18

- Assisted President in all their duties.
- Oversaw proper completion of projects and fulfillment of goals for the hall.
- Represented Mathew Living Learning Center at weekly Residence Hall Association meetings.

### Sevrinson Hall Government, NDSU

President 2016-17

- Assembled agenda for and chaired weekly Hall Government meetings.
- Facilitated discussion of goals and hall aspirations and delegated responsibilities accordingly.
- Represented Sevrinson at weekly Residence Hall Association meetings.

## Honors

- NDSU Dean's List Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018, Fall 2019
- National Merit Scholar 2016

## Technical Skills

- Software experience working with Python, PowerShell, Bash, Jenkins, Git/GitHub/GitLab, Ralley.
- Hands-on experience with lab equipment, including oscilloscopes, function generators, network analyzers, and thermal chambers.
- Real-world experience with Matlab, GNU Octave, Pspice.
- System administration with Docker, Apache, systemd, ZFS, and Ubuntu Server.
- Experience using and/or administering Debian, Ubuntu Server, and Arch Linux.