

Laurisa Seelman

Hardware Engineer

✉ laurisa.seelman@gmail.com

☎ (171) 818-2839

📍 Sioux Falls, SD

Education

Bachelor of Science in Hardware Engineering at South Dakota State University, Brookings, SD

Aug 2016 - May 2020

Relevant Coursework: Computer Architecture, Embedded Systems Design, Digital Electronics, Analog Electronics, Computer Networks, Operating Systems.

Links

[linkedin.com/in/laurisaseelman](https://www.linkedin.com/in/laurisaseelman)

Skills

Circuit design

Troubleshooting

Soldering

Networking

PCB layout and fabrication

Computer assembly

Diagnostics

Languages

English

Russian

Hobbies

Robotics

Profile

I am a Hardware Engineer with over 3 years of experience in the field. My expertise lies in designing and developing electronic systems, as well as repairing and troubleshooting complex hardware, while ensuring the highest level of quality. I have experience in designing robust systems with high-performance components, as well as integrating software and hardware systems. I am highly skilled in working with microcontrollers, embedded systems, and real-time operating systems. I am knowledgeable in the use of C++, assembly language, and scripting languages. I also have experience in using circuit simulators and troubleshooting techniques. I am eager to use my skills and knowledge to contribute to the success of any organization.

Employment History

Lead Hardware Engineer at John Deere, SD

Dec 2022 - Present

- Developed a new generation of swathers for John Deere, resulting in a 30% increase in customer satisfaction ratings and a 10% reduction in production costs.
- Led a team of 10 engineers to design and build a custom combine harvester for a major agricultural corporation, resulting in a 15% reduction in energy consumption and a 20% improvement in productivity.
- Collaborated with a global research and development team to develop an innovative solution for an automatic harvesting machine, resulting in a 25% decrease in downtime and a 25% increase in yield.

Senior Hardware Engineer at Daktronics, SD

Aug 2020 - Oct 2022

- Led the development of a new LED scoreboard system for Daktronics, SD that drastically improved customer satisfaction ratings. The system was able to reduce hardware failures by 30% and improved overall customer satisfaction ratings by 20%.
- Developed an automated diagnostic system for Daktronics' hardware systems that enabled technicians to diagnose and repair hardware issues in half the time. This system reduced repair times from eight hours to four hours and resulted in a 10% increase in customer satisfaction ratings.
- Developed a new system for testing Daktronics' hardware products that was able to detect and report hardware issues before they reached customers. This improved product quality and reduced customer returns by 15%.

Certificates

Certified Hardware Design Professional (CHDP)

Mar 2021

Certified Embedded Systems Engineer (CESE)

Sep 2019

Memberships