

Trent Walraven

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EDUCATION

Iowa State University, College of Engineering Ames, Iowa Expected May 2025
Master of Engineering in Cyber Security GPA 3.84/4.00

SKILLS

Certifications

- AWS: Certified Cloud Practitioner

Languages

- Computer: C, Java, Python, Bash

Software

- Microsoft Office, Proxmox/ESXi Virtualization, Linux Command Line, Serial Communications

Hardware

- Fine Tip Soldering Iron Use, Hot Air SMD Component Soldering, Beginner Homelab

ACTIVITIES AND LEADERSHIP

Cyber Tractor Challenge July 2022, 2023

- An event where John Deere brought in student to test the security of their embedded systems
- Was a student team mentor and team leader in July 2023

Cyber Defense Competition

- Teams are given virtual machines with intentional vulnerabilities and must defend from a red team
- Fall 2023 - 1st, Nationals 2023 - 3rd, Spring 2022 - 2nd, 2022 Nationals, Fall 2021 - 1st

Information Assurance Student Group September 2020 - Present

- President April 2023 – Present
- Vice President and Treasurer April 2022 – April 2023
- Temporary Equipment Chair January 2022 – April 2022
- Social Chair January 2021 – April 2022

Quiz Bowl Team September 2020 - Present
Culinary Science Club August 2021 - Present

PROJECTS

CPRE381 Computer Organization and Assembly Level Programming

- Created a single cycle MIPS processor as part of a team

CPRE288 Embedded Systems Robot Programming

- Controlling and using sensors on an embedded microcontroller to control a robot vacuum

EMPLOYMENT

John Deere Ames, Iowa
Embedded Red Team Part-Time Student August 2022 – Present

- Helping John Deere test the security of their embedded devices
- Creating tools to allow easier and further testing of embedded systems

Cloud Security Intern May 2022 – August 2022

- Helping secure John Deere's AWS environment
- Writing scripts to automate the security checks for AWS resources

Assured Information Security Remote
Software Analysis and Exploitation Intern May 2023 – August 2023

- Developed a client-server architecture for remote radio collection nodes

OTHER VOLUNTEER

FFA Banquet Meals Server with Culinary Science Club April 2022
Pancake Breakfast Volunteer with local Rotary Club 4 July 2021
National Association of Secretary of States Security Conference August 2021