

CHARLES NORTON

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EDUCATION

Grand Valley State University

Expected May 2027

Combined B.S./M.S.E. Degree Program

Master of Science in Engineering, Emphasis in Electrical and Computer Engineering

Bachelor of Science in Electrical Engineering

SKILLS

Programming Python (NumPy, SciPy, Matplotlib, SymPy), C, Matlab, GNU Octave, Julia

Hardware STM32 Microcontroller (STM32F446RE), Soldering, Altium Designer

CAD SolidWorks, Fusion 360, 3D Printing

MILITARY EXPERIENCE

Embarkation Logistics Chief

Jun 2013 – Apr 2017

United States Marine Corps

Camp Lejeune, NC

- Trained in Automated Information Systems for asset tracking, load planning, and Force Deployment visibility
- Directed a 500-person railhead operation during urgent movement operations

WORK EXPERIENCE

Engineering Co-op — Project Engineering

Jan 2025 – Apr 2025

Koops Automation Systems

Holland, MI

- Modified and debugged an artillery shell manufacturing system to support project progress
- Authored user documentation for machine interface procedures
- Prototyped and validated a bagging system for car seats, leading to customer interest in automation

Engineering Co-op — Controls Engineering

May 2024 – Aug 2024

Koops Automation Systems

Holland, MI

- Programmed Allen-Bradley PLCs and HMIs for a tractor seat manufacturing system
- Developed control logic for a three-station conveyor with integrated data tracking
- Collaborated on system testing, troubleshooting, and commissioning

Hospitality and Safety Manager

Jan 2020 – Dec 2021

The B.O.B.

Grand Rapids, MI

- Managed a team of 25+ to ensure a safe, welcoming environment
- Maintained logs for assets, incidents, and employee reviews to support liability protections
- Enforced fire safety compliance based on city codes

PROJECTS

Line Following Robot: A racing robot that was designed to follow a line on the ground quickly

Karaoke Machine: Microphone and speaker setup with adjustable gain and Bluetooth and auxiliary inputs

Digital Monster Pet: Highly interactive embedded system of a simulated pet that reacted to user interaction

Skeeball Trivia Game: Engaging take on the game of skeeball that includes trivia questions