Kobe Goodwin
Fargo, ND 58102
thekoveto@gmail.com
612-500-6720

February 2nd, 2025

Hiring Manager John Deere Dubuque Works
18600 S John Deere Rd, Dubuque, IA

Dear Hiring Manager,

I am writing to express my interest in the part-time Electrical Engineering position at John Deere Dubuque Works. Currently pursuing a B.S. in Computer Engineering at North Dakota State University, I have developed strong skills in electronic hardware through internship, school projects, and extracurricular activities.

In my recent internship at Signum, I programmed STM and ESP microcontrollers in C/C++, reviewed PCB schematics, and designed wire harnesses. Additionally, I have hands-on experience with electrical testing, problem-solving, and collaborating with teams to meet project deadlines.

I am excited about the opportunity to contribute to John Deere's innovative projects and help solve electrical issues for construction machine platforms. Thank you for considering my application. I look forward to the possibility of discussing how my background aligns with the needs of John Deere.

Sincerely,

Kobe Goodwin

# KOBE GOODWIN

Fargo, ND 58102 • 612-500-6720 • Kobe.Goodwin@ndsu.edu

Motivated and quality-oriented student aiming to obtain a computer engineering internship.

## EDUCATION

BS Computer Engineering, North Dakota State University, Fargo, ND, May 2025

- Finishing degree from an ABET-accredited program
- *Awards*: Dean's List (5), Tau Beta Pi Honor Society, GPA 3.8/4.0

## EXPERIENCE

Embedded Firmware Intern: Signum
01/2025 – Present Fargo, North Dakota

- Programmed STM/ESP microcontrollers; prepared code for review
- Reviewed PCB schematics; used test equipment; designed wire harnesses

## TECHNICAL SKILLS

- *Proficient:* Python, C, Java, GitHub, MATLAB, VHDL, Microsoft Office
- *Familiar:* PIC and MIPS assembly language, LTSpice, Fusion360

## PROJECTS

Senior Design III Project: Reverse Polish Notation Calculator
*08/2024-Present*

- Designed a PCB connecting a Raspberry Pi Pico to push buttons and LCD
- Embedded software programming using MicroPython
- Source control software experience with precise documentation

Senior Design I Project: Light Sensor
*01/2024-05/2024*

- Designed a PCB which powers an LED in response to low light conditions
- Implementation of Schmitt Trigger operational amplifier and transistors
- Experience planning project deadlines with a Gantt Chart

## EXTRACIRRICULARS

Society of Automotive Engineers

- Collaborative circuit design, testing, and implementation to design an electric vehicle