Tobi DeRuiter

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EDUCATION

Purdue University — **West Lafayette, IN**
BS, Computer Science & Robotics Engineering Technology, 3.5 GPA — *July 2020 – Dec 2024*

University of New South Wales — **Sydney, Australia**
Semester Abroad — *January 2023 – May 2023*

EXPERIENCE

Coding Mind Academy — **West Lafayette, IN**
Computer Science Instructor — *July 2024 – Current*
- Prepare a curriculum to instruct 1-3 middle to high school students each class both online and in person
- Teach 2 to 5 classes a week ranging from beginner to intermediate levels in C++, Python, Python: Pygame

The Rush Market — **Omaha, NE**
Computer Science Intern — *May 2022 – Aug 2022*
- Prototyped a web app on Heroku using Azure speech-to-text to enhance Rush Market's inspection process
- Developed back-end system to notify employees of a customer pick-up through text by implementing Twilio
- Researched and assisted in beginning development of computer vision to automate cycle counting/auditing

University of Nebraska at Omaha — **Omaha, NE**
Application Developer Intern — *May 2019 – Aug 2019*
- Created mobile app for iOS and Android in Unity in a team of 2 interns and a graduate student
- Programmed operations and animations in C#; worked with Unity Game Engine and Visual Studio

ACTIVITIES

Fluid Power Club (FPC) — **Purdue University, West Lafayette, IN**
FPC Electronics Team Member — *August 2023 – May 2024*
- FPC designs and manufactures a bike to compete in the NFPA Fluid Power Vehicle Challenge each year
- Designed and implemented an electronics system in a team of 4 to monitor and control the FPC bike
- Researched and tested 4+ sensors and 2 controllers while adhering to NFPA standards and requirements

Boiler Robotics Club (BRC) — **Purdue University, West Lafayette, IN**
BRC Mechanical Team Member — *August 2021 – December 2023*
- BRC works to construct a Mars rover to compete in the University Rover Challenge (URC)
- Designed, built, and programmed a robotic arm in a team of 5 to 6 students (for retrieval and servicing in URC)
- Programmed in ROS (Robot Operating System) to utilize inverse kinematics; Solidworks used for design

SKILLS & INTERESTS

- **Specific Skills:** Coding: Python, Java, Javascript, C, C++, C#, HTML, CSS, Bash; CAD (Autodesk & Solidworks); GD&T; 3D Printing; ROS (Robot Operating System); Raspberry Pi; Arduino; MS Office; Firebase; Linux; Leadership; Teamwork; Communication; Problem Solving; Organization; Time Management; Public Speaking; Analysis; Strategic-Thinking;
- **Interests**: Martial Arts; Climbing; Video Games; Dungeons & Dragons; Space; Robotics; Computer Science; Robotics; Machine Learning; Robot Arms; Automation