

TOBI DERUITER

Software and Robotics Engineer

+14026512523 @ tobi@tobi-deruiter.info tobi-deruiter.info
linkedin.com/in/tobi-deruiter West Lafayette
☆ Non-binary (they/them)

EDUCATION

	BS, Computer Science & Robotics Engineering Technology Purdue University GPA 3.5 / 4.0	07/2020 - 12/2024 West Lafayette, IN
	Semester Abroad University of New South Wales	01/2023 - 05/2023 Sydney, Australia

EXPERIENCE

Computer Science Instructor Coding Mind Academy <ul style="list-style-type: none">Prepare curriculum for 1-3 middle to high school students both online and in personInstruct 2-5 classes weekly covering beginner to intermediate levelsTeach courses in C++, Python, and Python: Pygame	07/2024 - Present West Lafayette, IN
Computer Science Intern The Rush Market <ul style="list-style-type: none">Prototyped a web app on Heroku with Azure speech-to-text for improving inspection processes at Rush MarketCreated a back-end system using Twilio to alert employees of customer pick-ups via text messagesResearched and contributed to the initial stages of developing computer vision for automating cycle counting and auditing	05/2022 - 08/2022 Omaha, NE
Application Developer Intern University of Nebraska <ul style="list-style-type: none">Developed a mobile app for iOS and Android using Unity within a team of 2 interns and a graduate studentImplemented operations and animations using C# programming languageUtilized Unity Game Engine for project development	05/2019 - 08/2019 Omaha, NE

ACTIVITIES

Fluid Power Club (FPC) Purdue University FPC designs and manufactures a bike to compete in the NFPA Fluid Power Vehicle Challenge each year <ul style="list-style-type: none">Designed and implemented an electronics system in a team of 4 to monitor and control the FPC bikeResearched and tested 4+ sensors and 2 controllers while adhering to NFPA standards and requirements	08/2023 - 05/2024
Boiler Robotics Club (BRC) Purdue University BRC works to construct a Mars rover to compete in the University Rover Challenge (URC) <ul style="list-style-type: none">Designed, built, and programmed a robotic arm in a team of 5 to 6 students (for retrieval and servicing in URC)Programmed in Python, utilizing ROS (Robot Operating System) for inverse kinematics; Solidworks used for design	08/2021 - 12/2023

SKILLS

Programming Languages

Python · Java · JavaScript · C · C++ · C# ·
HTML · CSS · Bash






Related

3D Printing · Android · Autodesk · Azure ·
Computer Vision · Firebase · Heroku · HTML ·
Linux · Machine Learning · Raspberry Pi ·
Robotics · Solidworks · Twilio · Unity ·
Visual Studio · NodeJS · Express · Frontend ·
Backend · Full Stack ·
Robotic Operating System · TensorFlow · CAD ·
Solidworks · Autodesk

General

MS Office · Teamwork · Communication ·
Problem Solving · Organization ·
Time Management · Public Speaking ·
Analysis · Strategic Thinking · Presentations

PASSIONS

-  Muay Thai
-  Climbing
-  Video games
-  Music
-  Dungeons & Dragons