Nicholas Maggi

(248) 600-7782 • nicholasmaggi18@gmail.com • thekfb.github.io

EDUCATION

University of Michigan, Ann Arbor August 2020-December 2023
BSE in Computer Science
GPA: 3.76
Coursework: Web Systems, Database Management, Data Structures and Algorithms, Agent Based Modeling, Computer Vision, Networking, Autonomous Robotics

PROJECTS

Instagram Clone Project January 2023-February 2023
Class Project
Created a clone of Instagram including posts, comments, accounts, and likes with a team by implementing a REST API on python backend, database querying with sqlite3, client-side dynamic web pages with React, and deploying to AWS

Path Updating Line Bot October-December 2023
Final Design Project
Used OpenCV in C++ to detect lanes an obstacles as part of a team to design and build a robot to autonomously follow lanes and avoid obstacles with partially obscured lane markings

Minesweeper 3D Personal Project June 2022-August 2022
Personal Project
Self-taught Unreal Engine 4 to implement a 3D version of the classic game *Minesweeper* in C++

TEAMS

University of Michigan Autonomous Robotics Club August 2020-April 2021
Member - Sensors Subteam
Used the Robot Operating System and LIDAR to construct a miniature autonomous platform to build a map and navigate its surroundings independently

FIRST Robotics Team #3098 & #8068 January 2017-April 2020
Programming Lead, Founder & Vice President
Developed Java code for controlled and autonomous robot function using vision processing, motion profiling, PID control, and other techniques resulting in a 90%+ success rate

WORK

University of Michigan School of Public Health August 2020-December 2020
Media Assistant
Assisted professors with hybrid (virtual and in-person) instruction, troubleshooting technical issues live to minimize difficulties with new instruction formats

Zap Zone Amusement Center June 2019-August 2020
Attraction Attendant
Oversaw multiple areas of the store, running attractions and responding to customer questions and complaints while maintaining equipment to reduce downtimes