VI DANG

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RELATED EXPERIENCE

Jan 2020 – Present	**Software Engineer Co-op (Javascript, Typescipt, HTML, CSS)** *Curriculum Associates, Billerica, MA*

- Work on Student toolbox feature of iReady product, an online classroom for teachers and students that provides Math & English instructions and lessons.
- Work within a Scrum team to plan, scope, build, and deliver software.
- Write unit test & feature test, typescript conversion, fixing defects to make sure there will not be regression.
- Maintain and write documentation for UI internal tools of the company.

Jun 2018 – Aug 2018	**Undergraduate Research Co-op (C++)** *Human-Robot Interaction Lab, Umass Lowell, Lowell, MA*

- Developed an algorithm to help the Pioneer P3DX Robot avoid the obstacles around and in front of it using ROS (Robotics Operating system)
- Applied Rviz to locate the position of the robot in a given map, designed and tested robot model in Gazebo simulator to visualize how the robot react with the algorithm

ADDITIONAL WORK EXPERIENCE

Sep 2016 – Dec 2019	**Math tutor & Supplemental Instruction Leader** *Middlesex Community College, Lowell, MA* *(Subjects: Statistics, Algebra and Calculus I & II, Programing I & II)*

- Worked as an assistant for Professor of Programming I & II & Statistic classes.
- Helped explain & correct students' exercises in class, prepared quiz and test reviews.
- Hold 2 one-hour sections per week to review concepts covered in class

EDUCATION

Expected May 2021	**Bachelor of Science in Computer Science, Minor in Mathematics** **GPA: 3.92** *University of Massachusetts Lowell, Lowell, MA*

Relevant Courses: Data Structure, Algorithm, Artificial Intelligence, Computing, Assembly, Logic Design, Linear I & II, Discrete I & II, Calculus I, II & III, Probability & Statistics
Accomplishments:
- Master Tutor certification – CRLA level 3 *(Middlesex Community College, May 2019)*
- Computer Science Award for Outstanding Student *(Middlesex Community College, May 2019)*
- Semi-Finalist DifferenceMaker *(Umass Lowell, March 2019)*
- 2017 Energizer Peer Tutor Award *(Middlesex Community College, Dec 2017)*

SKILLS

- Programming Languages: Java, C++, Javascript, html/css, Typescript
- Tools: Emacs, Vim, Dev C++, Visual Studio Code, Rviz, Gazebo
- Framework: Npm, Nvm, Nodejs, React, Jest,

PROJECT

Obstacle Avoidance for Pioneer P3DX Robot (C++)
This project was written during the co-op at Robot lab. It helps pioneer robot avoid obstacles around it when it's moving along a path surrounded by wall.
Link: https://github.com/ivdang/pioneer_control
Personal website (HTML, CSS, JS)
Link: *https://github.com/ivdang/PersonalWebsite*