MATTHEW DIM

Computer Science

matthewdim30@gmail.com (571) 455-6075 Reston, Virginia
MDim0330 MDim0330

SKILLS

Java | C/C++ | Python | CSS/HTML | Ruby | Vim | MatLab | Solidworks | Microsoft Office

LEARNING

Artificial Intelligence | Machine Learning | Computer Systems | Data Structures | Advanced Algorithms | Calculus | Lin Algebra | Differential Equations | Discrete Structures | Robotics | Chemistry | Engineering Design

HOBBIES

Debate Team
- Wyoming Tournament Novice Champion
- Rutgers 3rd Place Speaker Award

Cycling
- Century (100 mile race)

REFERENCES

References provided upon inquiry

SCAN ME

ABOUT ME

Enthusiastic Computer Science Student eager to contribute to a technology related project. Motivated to learn, grow and excel in a hardware or software related industry.

EXPERIENCE

Software Engineer Intern | Sedna Digital Solutions

06/2022 – 01/2023 Manassas, Virginia

- Created tools for the conversion of C library into other programming languages using WSDL and Protobuf
- Facilitated integration of Java tools with C programs using reflections

EDUCATION

Bachelor of Science: Computer Science | James Madison University

2019 – 2023 Harrisonburg, Virginia

- GPA: 3.56
- Minor in Mathematics
- Minor in Robotics

Master of Science: Computer Engineering | Virginia Tech

2023 – Current Virginia

RESEARCH

Autonomous Vehicle - JACart | |

01/2022 – 05/2023

- Paid Research Assistant - Robotics Operating System (ROS) Team Lead
  - Goals: Improve upon the collision avoidance of the vehicle
  - Integrated ZED cameras with LiDAR sensor for collision avoidance
  - Pose tracking with machine learning for passenger safety detection

PROJECTS

Buoy Project | |

08/2020 – 05/2021

- Advised by Northrop Grumann
- Communication Team Member
  - Worked on integrating Raspberry Pi, Lowra, and Sensors
  - System achieved autonomous state

FitBit Project - Step Counter | |

09/2021 – Current

- Using micro-processor, acceleration sensor, and radio integrated system using a self-developed foot-step algorithm
- Accurate up to 5 percent currently