YOGESH MOHANRAJ

yogeshmo@umich.edu ♦ (734) 623-3593

Permanent Address:
50817 Telluride Dr.
Canton, MI 48187

EDUCATION

University of Michigan, College of Engineering Ann Arbor, MI *April 2021*
Bachelor of Engineering in Computer Science, Potential Minor in Business Administration
GPA: 3.60 | **CS Languages:** C++, Java, HTML5, CSS, Python, Matlab
Relevant Coursework: Engineering 101 (C++ & Matlab), EECS 280: Programming and Data Structures, Math 216: Differential Equations, Physics 240: Electricity and Magnetism
Scholarships: *University of Michigan Engineering Scholarship of Honor, Ford Blue Oval STEM Scholarship, Regents Scholarship*

Plymouth High School Canton, MI *June 2017*
GPA: 4.33
Relevant Coursework: AP Computer Science (Java), AP Calculus BC, AP Chemistry, AP Statistics, AP Economics
Honors and Awards: *National Merit Finalist, AP Scholar with Distinction, Hometown Life Top 6 Students*

LEADERSHIP AND ACTVITIES

Michigan Emissary Group (MEG) *2017 – Present*
Consultant
- Worked with a group of 3 student consultants to reorganize the staffing structure of the CAEN technology hotline
- Analyzed staffing data using graphs and PivotTables in Microsoft Excel to determine the optimum staffing model
- Developed presentation skills by delivering numerous decks to the client detailing a proposed course of action

SPARK (Electric Motorcycle Racing) *2017 – Present*
Electrical Engineer
- Studied the motorcycle's electrical components by disassembling and reassembling last year's competition bike
- Learned about circuit components and how they interacted with the mechanical components of the motorcycle

Science Olympiad
Captain of Plymouth High School Team *2015 - 2017*
- Elected by 40+ members to organize club meetings, manage club finances, and train new club members
- Led team to the state competition two years and received fifteen 1st – 3rd place medals at the regional competition
- Designed a robot arm with potentiometers and servo motors while learning about Arduino programming and circuits

Co-Founder, Mentor of Liberty Middle School Team *2016 - 2017*
- Created a middle school Science Olympiad club to help promote STEM education at lower grade levels
- Promoted the club through numerous PowerPoint presentations, informative videos, and fundraisers
- Gained valuable interpersonal skills by working with the school board, school administrators, young students, and parents to help the team qualify for the state competition in its very first year

Lightning Robotics *2014 – 2017*
Senior Design Team Member
- Won four state titles and placed second twice at the World First Robotics Competition
- Helped design the electrical board of the robot using CAD software such as Autodesk Inventor and AutoCAD

PROGRAMMING PROJECTS

2D Side Scrolling Platformer *2017*
- Designed and coded a 2D side scroller called "Goat Runner" using Java in the Eclipse IDE in approximately 4 weeks
- Researched and utilized inheritance, classes, objects, and abstractions while writing the code
- Created the art and music for the game using Adobe Photoshop and Audacity

Hangman *2014*
- Created a simple Hangman Game in C++ that receives user input and alters an Ascii art "hangman" in around a week
- Learned about iteration, conditionals, libraries, structs, functions, and other programming concepts while coding

WORK EXPERIENCE

Tennis Coach *2017*
- Advertised private tennis lessons through printed ads, social media, and networking
- Conducted intensive lessons (1 hour long) for beginner to intermediate level students
- Learned how to interact with and teach younger kids who did not have any prior experience in tennis