PARKER CHURCHILL

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EDUCATION

Michigan State University, Honors College **East Lansing, MI**

Bachelors of Science, Computer Science & Engineering | Minor, Business **December 2026**

Relevant Courses: Algorithms and Data Structures, Probability and Statistics for Engineering, Computer Organization and Architecture, Linear Algebra with Computational Applications, Discrete Mathematics, Operating Systems, Computer Graphics, Computer Security, Mobile App Development.

PROJECTS & EXTRACURRICULARS

Second Place - Michigan Tech Week Student Hackathon, Team Lead **OpenAI, Javascript, HTML**

- Led a team that developed an AI education resource with the goal of providing all Michigan students, especially those in under-resourced communities, with the tools and knowledge to harness AI.
- Built strong collaborative and problem solving skills assembling and working in a team of three over a 10 day period.
- Utilized OpenAI developer tools to embed a custom GPT model into our courses.
- Received $3,000 in non-dilutive funding for our placement after pitching at Michigan Tech Week.

MSU Autonomous Vehicles Club, Software Lead **C++, ROS, PCL, Sensor Fusion**

- Led migration from legacy ROS Architecture to ROS 2 as ROS reached end of life.
- Built C++ ROS nodes for LiDAR/radar perception, using PCL point-cloud processing, tf2 coordinate transforms, and rosbag-based testing to support obstacle detection and sensor-fusion development for an autonomous vehicle platform.
- Collaborated with a multidisciplinary team on autonomous navigation, perception, and vehicle integration.

MSU AI Club, Project Lead **NumPy, pandas, PyGame, PyTorch**

- Attend weekly meetings on topics relating to understanding inner processes and new developments in the AI space.
- Lead a group of fellow students in the development AI that can play the game Tron, competing against other students at the end of the semester and finishing in second place overall for the Tron division.

LED Bike Safety Light, Lead Engineer **Arduino, Adafruit**

- Lead the design, fabrication, and coding of a bike safety light with the goal of improving road safety on campus.
- Gained experience with embedded system design using the Arduino programming environment in conjunction with Adafruit microcontrollers.

MSU Adaptive Sports Club, Event Coordinator

- Assist weekly in the operations of the Adaptive Sports program at Michigan State University, ensuring safe and equitable opportunities for participants with a range of disabilities.
- Coordinated multiple fundraisers promoting awareness and inclusion of people with disabilities and raising over $5,000 in total for the adaptive sports program.
- Applied creative problem-solving skills to modify activities and design solutions wherein every athlete can participate.

WORK EXPERIENCE

Software Engineering Intern - Powertrain Calibration, Bosch **May 2025 - Present**

- Designed and implemented software tools to optimize calibration workflows, reducing engineering time and improving process efficiency.
- Applied AI/ML techniques to automate data analysis and anomaly flagging, enhancing accuracy and scalability of calibration tasks, saving calibration engineers multiple hours per week of analysis time.
- Collaborated with cross-functional teams to identify workflow bottlenecks and deliver tailored software solutions and streamlined operations.

SKILLS

Front End | Javascript, HTML, NodeJS, CSS
Back End | Python, C, C++, Java, C#, PostgreSQL, REST APIs
Frameworks/Libraries | NumPy, MatPlotLib, pandas, PyGame, PyTorch, Selenium, Scikit-Learn, ML.NET, VSTO, Ollama
Developer Tools | Git, Docker, Bitbucket, Linux, Anaconda, GenAI Tools