

Nathan Comerford

Ann Arbor, MI; natecomerford36@gmail.com

Education

UNIVERSITY OF MICHIGAN ENGINEERING

MAY 2024

Major: Electrical Engineering, 3.87 GPA

Related Coursework: Electrical Circuits, Analog Circuits, Systems and Signals, Electromagnetics I, Electromagnetics II, Principles of Optics, Principles of Photonics

Work History

MAXAR TECHNOLOGIES INTERNSHIP

MAY 2023 - AUGUST 2023

- Operated an optical testbed using knowledge of optical systems as well as MATLAB
- Analyzed data during testing to diagnose and resolve problems to ensure controlled collects
- Researched both SAR and ISAR to determine possible solutions to phase errors from moving targets

TTM TECHNOLOGIES INTERNSHIP

MAY 2022 - AUGUST 2022

- Mastered basic HFSS software skills, ultimately using them to model real components to predict inputs and outputs more accurately on circuit boards
- Designed new filters for different bandwidths that are expected to be utilized directly in a final product

THE SPORTS CLUB OF WEST BLOOMFIELD

JUNE 2020 - AUGUST 2021

- Advanced to Junior Tennis Pro due to exceptional teaching skills and patience with younger students
- Coached classes for 3 to 5-year-olds on the basics of tennis and was recommended to start teaching private lessons to further develop their skills

Skills & Accomplishments

LEADERSHIP

- Took initiative in the leadership role of my Engineering 100 project by designating tasks for fellow group members that suited their strengths well
- Earned the role of team captain of the bowling team due to high coachability and strong teamwork skills
- Organized a fundraiser to get toiletries to troops in the Middle East as my Eagle Scout Project

COMMUNICATION

- Contacted suppliers for testbed parts at MAXAR to find the best product to ensure the accuracy of the testbed
- Managed email distribution to other departments at TTM to guarantee projects were completed in a timely manner
- Presented my final filters to a board of senior engineers at TTM and was directed to do another final presentation to wrap up all my smaller projects at the company

ACCOMPLISHMENTS

- Troop 327 Eagle Scout JANUARY 2020
- Valedictorian at University of Detroit Jesuit High School JUNE 2020

Experience

- **Equipment** – LCR | Keyence | Network Analyzer | Testbed Equipment
- **Software** – MATLAB | HFSS | AutoCAD | Maxwell | Genysis