

Jon Toto
jontoto@umich.edu
(516)661-0752
123 Meadow St. Garden City, NY 11530

EDUCATION

University of Michigan <ul style="list-style-type: none">◆ College of Engineering◆ B.S.E. Computer Engineering◆ GPA: 3.57/4.0	Ann Arbor, MI April 2018
Garden City High School <ul style="list-style-type: none">◆ GPA: 4.0/4.0	Garden City, NY June 2014

RELEVANT COURSEWORK

-
- ◆ EECS 445 : Machine Learning (currently enrolled)
 - ◆ EECS 373 : Design of Microprocessor-Based Systems (currently enrolled)
 - ◆ EECS 281 : Data Structures and Algorithms
 - ◆ EECS 370 : Intro. Computer Organization

PROGRAMMING SKILLS

-
- ◆ Proficient in C++, Python, MATLAB, VPython, LabVIEW, Verilog
 - ◆ Certified LabVIEW Associate Developer

RESEARCH & PROJECTS

Summer Undergraduate Research Experience (Robotics Dept.) <ul style="list-style-type: none">◆ Designed and implemented a random maze generation algorithm.◆ Implemented odometry code in C to run on a MAEbot, and code to work with Optitrak tracking system.◆ Implemented A* search algorithm in C to traverse generated maze with MAEbot.◆ Used LCM(Lightweight Communications Marshalling) to communicate between MAEbot and controlling laptop◆ Displayed MAEbot location, maze walls, and path data graphically using VX (an OpenGL wrapper designed at UM).	Summer 2016
Research at University of Michigan (Physics Dept.: Sih Lab) <ul style="list-style-type: none">◆ Designed and built a system to perform Van der Pauw and Hall Measurements in order to determine the resistivity, carrier concentration, and mobility of materials of arbitrary shape.<ul style="list-style-type: none">◆ Before samples had to be sent to North Campus for the measurements to be performed, and those measurements could be taken only at room temperature.◆ New system and code allow measurements to be taken in seconds and allow lab workers to place samples in a cryostat to be taken at multiple temperatures.	Summer 2015
Modelling of Action Potential in Hodgkin – Huxley Model <ul style="list-style-type: none">◆ Worked with a team to use VPython to simulate an action potential through a giant squid axon according to the model put forth by Alan Hodgkin and Andrew Huxley.	Fall 2014

WORK EXPERIENCE

Instructional Aide(IA) for Robotics 550 : Robotic Systems Lab <ul style="list-style-type: none">◆ Work with GSI's and Lab Instructor to help develop projects and tutorials for ROB 550.◆ Help to maintain Lab area and organization.	Fall 2016
Wild Fig Mediterranean Grill, Garden City, NY <ul style="list-style-type: none">◆ Received and packaged orders for takeout and catering.	Sept. 2013-Aug. 2014