

35 Brookline Street
Cambridge, MA 02139

Matthew Chamnan Tung

+1-360-431-2901
mtung@mit.edu
matthewtung.me

EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

- Bachelor's in Science for Electrical Engineering & Computer Science (2020) GPA: 4.4/5.0
- Candidate for Master's in Engineering for Electrical Engineering & Computer Science (2021)

Relevant Courses: Underactuated Robotics, Robotic Manipulation, Robotics Sci. & Sys., Digital Systems Lab, Nanoelectronics, Artificial Intelligence, Deep Learning for Self-Driving Cars, EECS through Robotic Sensing, Algorithms, Computational Structures, Circuits and Electronics, Data Science, Probability and Random Variables, Differential Equations, Linear Algebra

WORK EXPERIENCE

MIT SeaGrant

Cambridge, MA

Research Assistant

Sep 2020 – Present

- Help design, create, and program an autonomous surface vehicle to automate oyster farming for thesis
- Implement CV for object detection and path planning for navigating through farm and flipping oyster bags
- Design and program robot controls system via ROS and MOOS to operate consistently in oceanic environment for production

Kitware

Clifton Park, NY

Software Engineering Intern

Jun 2020 – Aug 2020

- Helped develop APIs for open source projects dealing with geospatial and MEVA data
- Added various features to annotation app to work with different datasets and be more robust
- Created a desktop version of an open source web app for video and Image analytics for aquatic environments

Capital One

New York, NY

Software Engineering Intern

Jun 2019 – Aug 2019

- Created and deployed a data management API tool to production via an AWS Lambda and Custom Jenkins Pipelining
- Created an intermediate application to consume queries from Kafka streams in order to handle data in Postgres and Oracles DBs

Ultimate Software

Weston, FL

Software Engineering Intern

Jun 2018 – Aug 2018

- Communicated with tax business analysts to complete stories to fix and optimize PTM Tax codebase
- Coded in C# and created SQL Stored Procedures to develop and test stories for Tax Filing team

MIT Media Lab Personal Robots Group

Cambridge, MA

Researcher

Sep 2019 – May 2020

- Develop data pipelining system for semester long study with JIBO robot and schools in Atlanta, Georgia
- Optimize JIBO codebase and work on feature extraction for emotions via facial recognition

MIT Global Teaching Labs - Korea

Cambridge, MA

Teaching Assistant

Jan 2019 – Feb 2019

- Ran a week long robotics workshop with 24 students from the Korea International School-Pangyo Middle School
- Taught at Korea International School-Jeju, giving hands on labs for basic circuitry, computer science, and other STEM topics

EXTRACURRICULARS/LEADERSHIP

StartLabs@MIT

Cambridge, MA

VP of Large Events

Sep 2017 – Dec 2018

- Student-run club dedicated to entrepreneurship and networking for start ups
- Organized, ran, filmed large scale event Entrepalooza for the undergraduate student body (2017, 2018)
- Managed logistics, marketed events, contacted and procured speakers and sponsors

Pi Lambda Phi Fraternity

Cambridge, MA

President

Dec 2018 - Dec 2019

- Act as leader and head of an off-campus independent fraternity of on average 40+ brothers
- Deal with all logistics, meetings, and decisions involving MIT's interfraternity council and Pi Lambda Phi International
- Was previously Vice President, Social Chair, Rush Chair, Academic Chair, Historian

SKILLS & SOCIETY

Computer and Technology: Python, Java, C#, Verilog, SQL, ROS, Linux, Sentauros, C/C++, Arduino, AWS, Jenkins, HT

Activities/Projects: MakeMIT 2017 (Pollution Sensor), MakeMIT 2018 (Smart Pull Up Bar), HackMIT 2017 (Song Suggestion UI)

Interests: Robotics, IoT, Systems, Running, Video and Audio Editing, Dance