

# Ming-Hung Yen

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## Education

<b>Stevens Institute of Technology</b>	Hoboken, NJ
Master of Engineering in Computer Engineering	08/2021 – 05/2023
<b>National Ilan University (NIU)</b>	Ilan City, Taiwan
Bachelor of Science in Electrical Engineering	09/2016 – 06/2020

## Technical Skills

**Languages:** C/C++, Python, JAVA, SQL, JavaScript, HTML/CSS, VHDL, Verilog

**Frameworks:** Django, React, Next.js, Express

**Developer Tools:** Git, Docker, Docker Compose, ROS, PostgreSQL, MongoDB, Google Cloud Platform

## Experience

<b>Graduate Student Research Assistant</b>	Hoboken, NJ
Stevens Institute of Technology	06/2022 – 08/2022
<ul style="list-style-type: none"><li>Deployed <b>5</b> different path planning navigation algorithms through ROS on robotics hardware.</li><li>Demonstrated trajectories of different algorithms and evaluated them on <b>6</b> different test scenarios e.g. TEB algorithm took more time than others in the scenario of <b>10</b> different dynamic obstacles</li><li>Used RViz and Gazebo for robot simulation and visualization, and worked on setting up an Ouster Lidar, with an NVIDIA Xavier to collect metadata and create a point cloud of its surroundings</li></ul>	
<b>Network Management Engineer (IT)</b>	Taipei City, Taiwan
Kuanghai International Travel Service co., Ltd.	08/2020 – 07/2021
<ul style="list-style-type: none"><li>Established a new Network Attached Storage (NAS) system, helping improve digital files transformation reducing <b>30</b> labor hours per month in total estimated</li><li>Created permissions for various accounts and maintained hardware for a global network environment including routers, switches, firewalls, wireless controllers</li></ul>	
<b>Engineer Internship (NIU's Off-Campus Internship Program)</b>	Ilan County, Taiwan
Hi-Nano Optoelectronics Co., Ltd	03/2020 – 05/2020
<ul style="list-style-type: none"><li>Developed C++ image processing program with OpenCV for industrial manufacturing machine, helping <b>reduce 1000 USD per month</b> from the previous subscription.</li><li>Operated machines of product line, including establishing automation coordinates on a machine and writing firmware program for ethernet industrial camera.</li></ul>	

## Selected Projects

<b>Smart Home</b>   Python, Html, C/C++, Arduino, Raspberry Pi	12/2017 – 02/2018
<ul style="list-style-type: none"><li>Connected Raspberry pi3 with Arduino by using general-purpose input-output method along with web camera, LED array, fan, and temperature humidity sensor</li><li>Acquired data from every sensor and Livestream, posted on HTML web page</li></ul>	
<b>Air hockey machine</b>   C++, OpenCV, ROS, MATLAB, Simulink	09/2018 – 05/2019
<ul style="list-style-type: none"><li>Implemented Simulink to control robotic arms to play air hockey with human</li><li>Written program with image processing tasks, which allowed our machine to see hockey puck and forecast the location and speed of puck</li><li>Used MATLAB to construct the virtual XY coordinate of the table and implemented ROS (Robot Operating System) to connect different programming environments</li></ul>	