MaryAnn S. Ho

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EDUCATION

University of Michigan, Ann Arbor, MI   *April 2023*
- Bachelor of Computer Science, College of Engineering
- GPA 3.75/4.00

Relevant Courses: Discrete Mathematics, Multivariable & Vector Calculus, Introduction to Logic Design, Programming and Intro Data Structures, Computer Science Pragmatics

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PROFESSIONAL EXPERIENCE

Optical Engineering, Collins Aerospace, Wilsonville OR   *May 2021 - Aug 2021*
Software Engineering Intern for the Summer Engineering Projects Program
- Evaluated performance characteristics of proprietary and competitor airborne radars for use in autonomous airway landing in low visibility conditions
- Diagnosed and resolved electrical issues that interfered with the performance of radars during live test
- Implemented radar data collection and processing in MatLab to extract detected objects from airborne radars in various testing environments

University of Colorado Remote Sensing Laboratory, Boulder CO   *Jan 2019 - Aug 2020*
Research and Development Intern
- Analyzed four years worth of sodium lidar measurements through MatLab to characterize sodium photon counts, wind, and temperature in the atmosphere
- Developed LabVIEW tutorials and technical reports for data acquisition systems in order to update and optimize the system
- Conducted alignment procedures for Coherent 899-21 Ring Dye Laser and various optic measurements using fiber cables for training graduate students

Michigan Medicine Radiology, University of Michigan, Ann Arbor   *Oct 2019 - April 2020*
Undergraduate Researcher through the Undergraduate Research Opportunity Program
- Completed understanding of in-house software tools for data analysis in order to identify imaging biomarkers for breast cancer diagnosis for women
- Utilized Python and Linux environment in order to prepare post-chemotherapy MRI scans to train a deep dual channel neural network using a Python library, TensorFlow, to identify characteristics in subtypes of breast cancer for noninvasive and personalized treatment

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LEADERSHIP/ TEAMWORK

Society of Women Engineers, Ann Arbor   *Dec 2019 - Present*
Girl Scout Outreach Officer
- Educate young girls about STEM and foster an environment to encourage STEM careers through various outreach events
- Orchestrate and facilitate small- and large-scale outreach events with the Girl Scout Council for Michigan

University of Michigan Information and Technology Services   *Sep 2020 - Present*
Computer Consultant
- Assist students, faculty, and staff with a wide variety of computer programs and software (e.g. Cloud Storage, VPN, Microsoft Office, Google Tools, and the Adobe Suite)
- Support professors in the classroom with software and classroom equipment issues and give workshops to groups of patrons on various programs
- Host virtual office hours and phone communication for students and employees at the University of Michigan

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SKILLS

Computer Languages: HTML/CSS, JavaScript, Python, MatLab, LabVIEW, Linux, C++, C, Git