

# Raymond Y. Xu

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## Education

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**Cornell University, College of Engineering**, Ithaca, NY

Master of Engineering in Electrical and Computer Engineering

2018

Bachelor of Science in Electrical and Computer Engineering

2017

## Experience

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**Machine Learning Engineer: Perception**

July 2018 - May 2020

Johns Hopkins Applied Physics Lab — Laurel, MD

- Worked on small teams on Navy research contracts related to imaging software and visual based navigation.
- Led an internal research project to capture underwater images and extract depth information.
- Created a orientation prediction network, predicting which way boats were facing based on images of them.
- Designing and improving web and offline auto-annotation tools for detection, segmentation, and orientation.
- Built detection systems for boats in long range infrared imagery in C++, training models in tensorflow.

**Master of Engineering Design Project: Machine Learning**

August 2017 - May 2018

Sabuncu Lab — Cornell University

- Sabuncu Lab worked to improve the speed of MRI acquisition.
- Achieved image registration of 3D brain MRIs using feature comparison in a siamese neural network.

**Machine Learning Intern**

December 2017 - January 2018

Expedition Technology — Sterling, VA

- Improved specialized TensorFlow networks to classify radar emitters from 1D chirp signals.

## Extracurricular Activities

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Radio show hosting, Classical guitar performance, Political Activism, Intramural sports