




# Edmond Tong

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## Education

- 2025 – 2028     **PhD Robotics** Queensland University of Technology, Brisbane, Australia  
Intended Thesis: *Human-to-Robot Learning from Demonstration by Shaping Latent Spaces*  
Primary Supervisor: *Prof. Niko Sünderhauf*, Associate Supervisor: *Prof. Jonathan Roberts*
- 2022 – 2024     **MS Robotics** University of Michigan, Ann Arbor, Michigan. **GPA: 3.98/4.00**
- 2015 – 2018     **BS Mechanical Engineering**, Brigham Young University, Provo, Utah. **GPA: 3.80/4.00**




## Research Publications

- 1 E. Tong, A. Balaji, A. Pipari, S. Lewis, and Zhen, “Oval-grasp: Open-vocabulary affordance localization for task oriented grasping,” in *19th International Symposium on Experimental Robotics*, 2025.

## Work Experience

- 2023 – 2024     **Graduate Student Instructor, University of Michigan**, Ann Arbor, MI  
*Teaching:* Taught graduate courses (Programming for Robotics, Deep Learning for Robotic Perception) and led weekly labs for 30+ students, boosting C++ and Python skills.  
*Curriculum Development:* Developed PyTorch-based project modules to apply deep learning techniques to robotic perception tasks.
- 2023 – 2023     **Intern – Data Science and Autonomy, PacMar Technologies**, Ann Arbor, MI  
*Model Analysis & Optimization:* Analyzed reinforcement learning (RL) data to mitigate uncertain state spaces and improve model robustness.  
*Tool Development:* Developed a GUI for rapid visualization of ROS2 bottlenecks and wrote Python scripts for real-time trend identification in large datasets.
- 2018 – 2021     **Application Engineer, In-Position Technologies**, Kaysville, UT  
*Sales & Design:* Closed \$500,000 in sales using rapid prototyping and robotic simulations. Engineered electrical/mechanical CAD schematics for multirobot work cells.  
*Automation & Integration:* Created custom robotics solutions for 120+ clients and developed bash/python packages for automation software communication.  
*Performance Improvement:* Programmed machine vision systems, increasing defect detection accuracy by 30%.
- 2016 – 2018     **Linux System Engineer, Brigham Young University**, Provo, UT  
*System Efficiency:* Automated maintenance/upgrades, reducing server downtime by 100 hours annually and decreasing deployment build time by 15%.  
*Infrastructure Support:* Managed and supported Red Hat Linux infrastructure for over 250 web servers.

## Skills

- Software     SolidWorks, NX, Fusion360, Microsoft Office
- Operating Systems     Linux, Windows
- Programming     C++, Python, Pytorch, TensorFlow, MATLAB, ROS/ROS2, Git