Ni-Ching 'Monica' Lin

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EDUCATION

M.S. Institute of Electrical and Control Engineering National Chiao Tung University Sep,2016 – Jan,2019

(NCTU), Taiwan
Thesis: Autonomous Surface Vehicle for Maritime RobotX Challenge

B.S. Department of Electrical Engineering Tamkang University (TKU), Taiwan. Sep,2012 – Jan/2016

GPA: 3.89/4.00, Ranking: 3/67.

EXPERIENCES

Hardware R&D Engineer/Hardware System Integration Engineer, QCraft Inc.

Oct, 2019 - Now

Research and development

- Designed/Built Self-driving Hardware System for Cars (Lincoln MKZ, Jinlv minibus, Pix Loop, etc.)
- Designed/Simulate Sensors' Position on Self-driving Cars
- Designed/Built/Tested Computation System

Mechatronics Engineer, XYZ Robotics Inc.

Apr,2019 – Jul,2019

Research and development

- Upgraded/Built Production End of Arm Tool (EOAT) with Magnetic Breakaway and Z Compliance
- Upgraded/Built/Test Polybag Cup Characterization handle high mass skus in loose poly-bags

WAM-V Integration Lead, Maritime RobotX Competition

Oct,2017 - Dec,2018

(WAM-V Wave Adaptive Modular Vessel)

System Designed (NCTU WAM-V Autonomous System)

- Coordinate rapid engineering changes across multiple disciplines
- Designed/Built/Tested Power, Internet, and Motor Systems
- Conducted investigations and resolved in-field issues

End Effector Lead, Independent Study, NCTU

Sep,2018 – Feb,2019

System Design (End Effector for Amazon picking challenge)

- Designed/Built a parallel and vacuum gripper that can handle high mass warehouse items
- Designed/Built an electronic board for the gripper

TECHNICAL SKILLS

Mechanical/Electrical Software: SolidWorks, Fusion 360, Altium Engineering, EasyEDA Fabrication tools: Soldering, 3D Printing, Vertical CNC Milling, Lathe Turning, Laser Cutting Libraries & Tools: ROS, Windows, Linux, git, vim, Gazebo, Docker, Jira, Script, Python, Slack

PUBLICATIONS

- [C1] **N.-C. Lin** (Eds.), "Duckiepond: A Reproducible, Flexible, and ML-Compatible Education and Research Platform for a Fleet of Autonomous Maritime Vehicles", Accepted by IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2019).
- [C2] T.-K. Chuang*, N.-C. Lin* (Eds.), "Deep Trail-Following Robotic Guide Dog in Pedestrian Environments for People who are Blind and Visually Impaired - Learning from Virtual and Real Worlds", IEEE International Conference on Robotics and Automation(ICRA 2018). *T.-K. Chuang and N.-C. Lin contributed equally to this work.

HONOR & AWARDS

5th Place and Best Single Day Performance , 2018 RobotX Challenge. (\$4,000 &\$2,000 USD)	Dec,2018
Pilot Overseas Internships, Ministry of Education, Taiwan. (\$10,000 USD).	Jun,2017
First Place Award, HIWIN Intelligence Robot Implementations Contest, Taiwan (\$13,000 USD)	Jul,2015
Da Yu Award, College of Engineering Tamkang University (Top 3%)	Mar,2015