## Ni-Ching 'Monica' Lin

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EDUCATION				
M.S. Institute of Electrical and Con	trol Engineering National Chiad	o Tung University	Sep,2016 – Jan,2019	
(NCTU), Taiwan				
Thesis: Autonomous Surface Vehicle	e for Maritime RobotX Challeng	e		
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	e 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.)				
<ul> <li>Designed/Simulate Sensors'</li> </ul>	Position on Self-driving Cars			
<ul> <li>Designed/Built/Tested Comp</li> </ul>	outation System			
Mechatronics Engineer, XYZ Robot	ics Inc.		Apr,2019 – Jul,2019	
Research and development				
<ul> <li>Upgraded/Built Production End of Arm Tool (EOAT) with Magnetic Breakaway and Z Compliance</li> </ul>				
<ul> <li>Upgraded/Built/Tested Polybag Cup Characterization handle high mass skus in loose poly-bags</li> </ul>				
WAM-V Hardware System Integrati	i <b>on Lead,</b> Maritime RobotX Cor	npetition	Oct,2017 – Dec,2018	
(WAM-V Wave Adaptive Modular Ve	essel)			
System Designed (NCTU WAM-V	/ Autonomous System)			
<ul> <li>Coordinate rapid engineerin</li> </ul>	g changes across multiple disci	plines		
<ul> <li>Designed/Built/Tested Powe</li> </ul>	r, Internet, and Motor Systems			
<ul> <li>Conducted investigations an</li> </ul>	d resolved in-field issues			
End Effector Lead, Independent Stu	dy, NCTU		Sep,2018 – Feb,2019	
System Design (End Effector for	Amazon picking challenge)			
- Designed/Built a parallel and	d vacuum gripper that can hand	dle high mass ware	house items	
<ul> <li>Designed/Built an electronic</li> </ul>	board for the gripper			
<b>TECHNICAL SKILLS</b>				

Mechanical/Electrical Software: SolidWorks, Fusion 360, Altium Engineering, EasyEDA Fabrication tools: Soldering, 3D Printing, Vertical CNC Milling, Lathe Turning, Laser Cutting

Libraries & Tools: Windows, Linux, git, vim, ROS, 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