# Vincy (Wen-Xin) Xiao

Email: vincy@mit.edu | Portfolio: vincyxiao.com

---

**EXPERIENCE**

**Research Assistant**, Massachusetts Institute of Technology- Media Lab    2018–2019
City Science Lab
- Applied multiple local path planners to examine the relationship between pedestrians' performances and PEV(a light-weight autonomous vehicle)
- Implemented mechanical eyes on PEV in charge of the mechanical design, dynamics, and light performance of the eyes
- Enhanced mechanical design and worked with experts from Denso Corporation- one of the largest OEM parts suppliers
- Installed Ultra-wideband chips on PEV as anchors for following another UWB chip carried by pedestrians
- Built a new URDF of the second generation of PEV and simulate on RViz
- Exhibited at the Cooper Hewitt Museum in New York

**Research and Develop Intern**, Delta Electronics- Delta Research Center    Mar–Dec 2017
Track & Trace Team
- Designed and exam circuits of a high-accuracy visible light indoor positioning system
- Constructed the firmware from scratch using Microchip 24-bit chips

**EDUCATION**

**B.S. Mechanical Engineering**, National Taipei University of Technology    2018
- Cumulative GPA: 3.95 / 4.00
- Rank in Department: 1st / 148
- Dean's List all semesters
- Relevant Coursework: Mechanical Design, Mechatronics, Mechanisms and Dynamics of Machinery, Machine Shop, Automatic Control, Artificial Intelligence and Machine Learning

**SERVICES**

**President**, Crazy Robot Club    Jun 2015–Jun 2016
- Organized the 5th Crazy Robot Robocon (the robot competition for engineering freshmen)
- Led all the teams within the club to participate in the 22nd TDK Robocon and won the 3rd place and Best Team Award
- Raised funds by participating in Maker Faire and other exhibitions; increased sponsorship by 50 percent compared to the previous year
- Exhibited in Maker Faire and Taipei Children Craft Faire

**Coordinator**, Orientation for MechE freshmen    Mar–Dec 2015
- Led a team of over 80 members from the Engineering Dept
- Organized 4-days events, including process and human resources

**AWARDS**

**Technology Award**, Robotics Challenge Contest at Chiba Institute of Technology    Aug 2018

**The Third Place**, Tongji Uni., Taipei TECH & Osaka TECH Jointed PBL Workshop    2017

**Best Team**, Taiwan TDK Robocon - The Remote Control Contest    Oct 2016

**Best Teamwork**, MIT Beyond Future Mobility Summer Workshop in Taiwan    Aug 2015

**The First Place**, Taipei TECH & Tongji University Jointed Competition    Aug 2015

**VALORISATION**

**MITx Probability**, edX (verified cert.)    2020

**COMPETENCES**

**Languages** Mandarin Chinese(*native*), English (*Excellent*, IELTS 7.0), Korean (*basic*)

**Techniques** Matlab, C/C++, Python, ROS, git, LaTeX, Assembly Language(PIC18) , Solidworks