

Chee Hau Teoh

"An engineer empowering innovative ideas that make meaningful impacts on society and environment."



: cheehauteoh95@gmail.com



: (814) 880-8871



: www.linkedin.com/in/cheehauteoh/



[bit.do/lifeofchee]

EDUCATION

The Pennsylvania State University, CGPA: 3.93/4.00
B.S. in Mechanical Engineering || B.S. in Nuclear Engineering

Pennsylvania, USA
Aug. 2014 - May 2018

RELEVANT EXPERIENCE

Penn State Fluid Transport Lab

PPG Research Fellow || Fall 2017 REU Scholar & Mentor

Pennsylvania, USA
Jan. 2017 – Present

- Re-engineered a setup to work with 6 high-speed cameras for dry ice and superheated boiling studies
- Developed MATLAB programs that improved the accuracy of particle tracking up to 100000 particles
- Assisted in building a vertical water tunnel setup to study turbulent multiphase flow and bubble deformation
- Built a lab workstation for data acquisition and installed a UV light water treatment system

Department of Energy's 2016 Collegiate Wind Competition (1st place nationwide)

Market Turbine Designer || Manufacturing Team Lead

Pennsylvania, USA
Oct. 2015 – May 2016

- Designed an award-winning 3.4-m-diameter wind turbine that charged portable batteries at outdoor-multiday music festivals
- Led the manufacturing team in 3D-printing and parts sourcing to assemble a wind turbine prototype
- Maintained effective communication with the business team to ensure the design conforms to the business model
- Conducted static and dynamic stress loading analysis using FEA for safety and reliability evaluation

Penn State Formula SAE (33rd place out of 120 teams worldwide)

Exhaust Team Lead

Pennsylvania, USA
Aug. 2014 – Dec. 2015

- Fabricated 2 sets of exhaust headers by machining and TIG welding for the 2015 Formula-style race car
- Optimized the exhaust header length based on the pressure impedance calculations computed in MATLAB
- Modeled exhaust header prototypes using ICAEworks 1625 Series blocks as replicas before manufacturing

KOSSAN Rubber Industries

Process Improvement Intern

Selangor, Malaysia
May 2015 – July 2015

- Streamlined the manufacturing process of latex gloves through lean six sigma and root cause analysis
- Reduced costs by modeling a \$25000 machine in SolidWorks and creating manufacturing guides with DFM practices
- Designed and retrofitted a chain cover that reduced product contamination and enhanced site safety
- Supervised the installation of machinery and collected data to evaluate and verify machine performance

LEADERSHIP EXPERIENCE

Penn State Wearable Tattoo Electronics Research Lab

Spring 2016 REU Scholar || Undergraduate Research Team Lead

Pennsylvania, USA
Jan. 2016 – May 2016

- Initiated projects that focused on bio-integrated and multifunctional electronics for diagnostics/therapeutics
- Led weekly meetings with 8 students to facilitate communication and project planning
- Studied the magnetic-responsive polymer composite material for biodegradable electronics

Penn State Engineering Career Resources & Employer Relations

Career Envoy

Pennsylvania, USA
Aug. 2015 – Present

- Empowered engineering students by providing them advice on professional development and career planning
- Coordinated with the director to develop job search strategy plans, particularly for international students

VOLUNTEER EXPERIENCE

Penn State United Nations Children's Fund (UNICEF)

Marketing Committee

Pennsylvania, USA
Aug. 2014 – May 2015

- Raised \$5510 through fundraising with The George Harrison Fund to provide lifesaving assistance to children
- Certified as a distinguished member for active participation in charity and spreading global awareness

LANGUAGES

English, Chinese-Mandarin, Malay

SKILLS

SolidWorks, MATLAB, EES, Microsoft Office, HTML, GD&T, TIG welding, Mechanical machining, Teamwork, Time management

PRESENTATIONS

APS DFD Conference 2017, REU Summer Symposium 2017, Materials Day 2017, Undergraduate Exhibition 2016

OTHER ACTIVITIES

Rapid Magnetothermal Annealing System (Mechanical Designer), Exelon Renewable Beryllium-7 Production Project (Designer), Penn State Ecocar 3 (Control Algorithm Team Member)

INTERESTS

Marathon, Volleyball, Food, Badminton, Board games, Reading, Technology, Traveling