

V

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adam9515@gmail.com 20.09.1993 in Taipei



Taiwan



Single, no child



www.linkedin.com/in/yu-sheng-tang

🚇 LANGUAGES

Chinese (Native)
 Taiwanese (Native)
 English (C1)
 German (A2)



SKILLS

Programming:

Python (Expert)MATLAB (Advanced)

Finite Element Analysis:

LS-DYNA (Expert)
 HyperMesh (Expert)
 Ansys (Intermediate)

Computer-Aided Design:

SolidWorks (Advanced)
 Inventor (Advanced)
 PTC Creo (Intermediate)
 AutoCAD (Intermediate)

Applications:

MS Office (Expert)
 LaTeX (Expert)
 Origin (Expert)
 Unix/Linux (Intermediate)

Hobbies and interests:

In my spare time, I enjoy preparing various cultural foods. Making Taiwanese cuisine, in particular, to introduce Taiwanese culture to my friends. My favorite way to relieve stress is to engage in hobbies like basketball, working out, and mountain climbing.

Yu-Sheng Tang

MSc Sustainable Systems Engineering seeking for Research Engineer

ABOUT ME

- Dedicated to employing my expertise to build a resilient, robust, and reliable system
- Enthusiasm for utilizing software to analyze the physical response of a system and further to build easy-to-read as well as attractive data visualizations
- Being a multi-cultural background, communicative, independent, optimistic and active team member

WORK EXPERIENCE

05/2020 - Present

Research Assistant / Fraunhofer EMI

Freiburg im Breisgau, Germany

- Project Modeling the impact failure (delamination) of different configurations of CFRP under various scenarios with LS-DYNA
- Project Modeling the failure of a single-lap hybrid joint (Al-CFRP) under tensile loading with LS-DYNA
- Designed components geometry in Autodesk Inventor
- Established a meshed model in HyperMesh
- Optimized numerical parameters, analyzed results and built data visualization with Python

12/2019 - 03/2020

Research Assistant / INATECH, Uni Freiburg

• Freiburg im Breisgau, Germany

Simulation:

- Built a numerical model of small-scale pivot specimen for torsion test with LS-Dyna
- Analyzed simulated results and built data visualization with Python

Experiment:

- Implementation of cyclic stress (fatigue) loading for small-scale material characterization
- Controlled the stepper motor with python to implement cycling loading (low-cycle fatigue)
- Optimized the sleeping time of stepper motor by considering the signal frequency, rotation speed and gear ratio
- Analyzed the signal and made data visualization with Python

09/2012 - 09/2018

Teacher / Freelancer

🕈 Taipei, Taiwan

- Taught junior high and high school students in mathematics, physics and chemistry
- Participated in teaching material editing and learned various techniques to enhance teaching efficiency and leadership
- Instructed group learning, managed team and center operation
- Facilitated junior high school student involvement in quantitative calculation and critical thinking, and also in educational counseling
- · Supported students on oral examination and personal statement writing
- Provided special education support (e.g. ADHD)

07/2015 - 08/2015

Manufacturing Intern / Yiming Corporation

New Taipei, Taiwan

- Followed up on clients' request of switchboard parts crafting (ex. drilling, stamping, plating, bending, welding, leveling, etc.)
- Conducted repeated product testing and revision prior to supervisor's final evaluation

EDUCATION

10/2018 – 02/2021 MSc. Sustainable Systems Engineering (Master's Thesis: 1.0, Overall: 1.7)

Albert-Ludwigs-Universität Freiburg, Freiburg im Breisgau, Germany

02/2018 – 09/2018 Graduate Institute of Automation and Control (Finished courses, no thesis)

National Taiwan University of Science and Technology, Taipei, Taiwan

Chang Gung University, Taoyuan, Taiwan

PROJECT

10/2019 - 02/2020 Implementation of cyclic stress loading for small-scale material characterization

04/2019 – 07/2019 Analyzing the market value of wind and solar power for different electricity markets

09/2015 – 06/2015 Injection molding design and manufacturing

03/2015 - 06/2015 Automatic flight control for a quadcopter