

紀思年 SZU-NIEN CHI



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EDUCATION

National Taiwan University

Department of Mechanical Engineering

Taipei, Taiwan

Sep 2020 – Present

- **Related courses:** Control System; Digital Control System; Optimal Control; Mechanical Engineering Practice; Mechanical Design Principles; Microprocessor Control System; Intelligent Robot Application and Implementation; Applied Electronics; Electrotechnics

National Taiwan Normal University

Department of Mathematics

Taipei, Taiwan

Sep 2018 – Jul 2020

- **Related courses:** Probability; Linear Algebra

SKILLS

Language: Mandarin (native), English

Programming Skills: C/C++/C#, MATLAB, LabVIEW, Arduino

Technical Skill: Inventor, Solidwork, AutoCAD

LABORATORY & PROJECTS

Advanced Medical Device Laboratory of Prof. Hao-Ming Hsiao at NTUME **Sep 2022 – Jan 2023**

- Vascular stent machine: Used C# to make the computer vision part of the vascular stent machine to ensure its successful installation process.

Projects:

- Made a small pneumatic tracking vehicle, I was in charge of the electronic control and program part. I wrote the PID control program with Arduino to control the motor speed so that it could climb slopes and track correctly.
- Designed an automatic measuring device for large pipe inner hole, I was responsible for the design, drawing and cost, profit analysis.
- Designed an algorithm for allocation of medical resources, I took responsibility for thinking about the topic, searching literature, and explaining the mathematical theory.

EXTRACURRICULAR ACTIVITIES

NTNU Mathematics Student Association

Activities Department

- Hosted the joint Christmas party of eight departments
- Held orientation camp: two days and one night outdoors activities for freshmen

NTNU Taipei Club

Public Relations Department

- Managed Facebook fan pages and helped the club nights get tens of thousands of sponsorships