



XINLEI ZHANG

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Personal Page

EDUCATION

Intelligent Manufacturing | *Shien-Ming Wu School of Intelligent Engineering*
South China University of Technology

Sep. 2020 – Now
Guangzhou, China

GPA

3.78

Courses Taken

- Applied Calculus II 96/100
- Linear Algebra 97/100
- Introduction to Computer and Programming 94/100
- Artificial Intelligence Technology and Applications 90/100
- Big Data Analytics and Applications in Industry 98/100
- Introduction to Dynamics and vibrations 92/100

PROJECTS AND RESEARCH

Course Project for Big Data Analytics and Applications in Industry | *Team Leader*

Fall Semester 2021

Motion Recognition for Ping-Pong Players

- Design the hardware to collect multi-dimensional physical data of a ping-pong player
- Use Artificial Neural Network and Decision Tree to classify actions of ping-pong players

Summer Research Internship at University of Alberta

Aug.2022

The Dynamic Radio Universe

- Use machine learning algorithms to analyze astronomical data produced in one astronomical survey, VLASS

Research in the lab of Magnetic Controlled Medical Robot in SCUT

Sep.2021-Now

Ambiguity in Magnetic Pose Estimation

- Propose the definition of ambiguity problem in Magnetic Pose Estimation
- Find methods to solve the ambiguity problem
- Propose the minimum number of magnetic sources for unambiguous pose estimation

COMPETITION EXPERIENCE

Micro Sensing and Intelligent Technology Competition

Summer 2021

Soil microbial activity sensors for high spatial and temporal resolution

- Development of a companion Android application to receive and analyze the real-time activity of soil microbial

HONORS AND AWARDS

Scholarship of the South China University of Technology

Freshman Year

Top 7 among total 55 students

Third-class Scholarship

Micro Sensing and Intelligent Technology Competition

Summer 2021

top 20 teams among total 100 teams

National First Prize & Excellent Defense

China Scholarship Council Undergraduate Internship Partnership Scholarship

Summer 2022

Only 1 in South China University of Technology & total 9 in China

Internship Scholarship

SKILLS

Languages: Chinese (Native), English (Fluent)

Programming: MATLAB&Simulink, Python (NumPy, SciPy, Matplotlib, Pandas), C, C++

Document Creation: Microsoft Office Suite, LaTeX, Markdown