WENHAO SHI

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EDUCATION

University of Southern California   **2024 - Expected 2026**

Master of Science, Electrical and Computer Engineering (Machine Learning and Data Science)

Nanyang Technological University   **2018 - 2020**

Master of Science, Smart Product Design   Singapore

Nanjing Normal University   **2014 - 2018**

Bachelor of Engineering, Mechanical Engineering   Nanjing, China

WORK EXPERIENCE

AECC Commercial Aircraft Engine Co., Ltd.   **Shanghai, China**

Engineer   2022 - 2024

- Designed air system of aircraft engine installed on commercial airplanes like Boeing 777 and Airbus A320
- Cooperated with nearly 1000 hardware and software engineers in a project
- Completed 2 configurations of engine's air system from conception design to manufacturing and testing
- Drafted 3 specifications about the design of air tubes, fittings, and tube claps

Nanjing High Speed Gear Manufacturing Co., Ltd.   **Nanjing, China**

Product Engineer   2020 - 2022

- Designed and researched cycloid gearboxes used in joints of industrial robotic arms
- Developed a dynamic model of cycloid gearboxes to determine the tolerance of parts using MATLAB
- Developed parameter optimization program for cycloidical gear tooth flank to pair gears to implement higher assembly efficiency and better product performance using C++
- Automated measurement data processing using C++ and Python, reducing the processing time from 1 day to several seconds for one engineer

Bosch Automotive Products (Suzhou) Co., Ltd   **Suzhou, China**

Lab Intern   2018

- Performed reliability test for electronic devices, processed testing data, and wrote testing reports
- Wrote 2 lab tutorials to standardize lab operations used to train new lab operators
- Translated English articles into Chinese to construct knowledge base of the department

PROGRAMMING SKILL

C / C++   STL, Cuda, Eigen, Ceres

Python   Numpy, Pandas, Scikit-learn, PyTorch, Matplotlib

MATLAB   Basic Matrix calculation, data visualization, and Simple Simulink program for signal processing

ADDITIONAL

Software   Simens NX, AutoCAD, Ansys, MSC NASTRON

Interests   Photography, Traveling, Building wheels (especially the system programming like OS)