Junxian Qu

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EDUCATION

University of California-San Diego	CA,US
M.S. in Computer Engineering	03/2021 – present
Southeast University	Nanjing, China
M.S. in Electrical Engineering & Automation;	09/2017 – 06/2020
Southeast University	Nanjing, China
B.S. in Electrical Engineering & Automation; GPA: 88.3/100, 3.62/4.00	09/2013 – 07/2017

SKILLS

Languages: Java, Python, MATLAB, Html, C, C++, Mathematica
Frameworks & Tools: CSS, Git, Kivy, Requests, Flask

EXPERIENCE

Hardware & Software Motor Engineer at Midea Co. China   07/2020 - 01/2021

Designed software based on a database to calculate motor's output quickly, which includes designing the graphical user interface(GUI), developing algorithm to simulate motor data, building a query database, updating the database by qualified users remotely[**Python,MATLAB,SQLite,Mathematica**]

∗ Designed the GUI with Tkinter. Including inputoutput modules and a submission module for users.

∗ Built sub-domain method to deduct the motor's analytical algorithm in MATLAB and Mathematica.

∗ Constructed the SQLite database with the data gotten from MATLAB, which saved simulation time.

∗ Delivered information to server by socket script. Updated database by qualified users directly.

∗ Created a script calling JMAG(a popular simulation software) externally to accelerating simulation.

PROJECTS

Android Airbnb Crawling App[Python][Kivy,Requests]   02/2021 - 03/2021

Developed this app to help people get Airbnb hotels' information in a specific area and specific time quickly. Enter the place, check-in, check-out dates will get the information of available hotels on Airbnb.

∗ Designed the Android GUI with Kivy frame, including login, sign-up and main screens.

∗ Implemented crawling data from Airbnb with Requests frame and BeautifulSoup packages and saved.

Python Applications[Python,SQLite][openCV]   03/2021

∗ Deployed a motion capture application with openCV frame, which could catch move and move-time.

∗ Built a library based on Tkinter and SQLite database, including query, update, delete and insert.

∗ Displayed world population and volcano locations on a web map with Pandas and Folium packages.

Personal Website[Python, Html][CCS, Flask, Git]   01/2021 - present

∗ Constructed web frame with both CSS and Flask frame and pushed the web to Heroku web by Git. Personal website link: https://jxquweb.herokuapp.com/

Foundation Project(No.51777034, No. 51377019)) [C,Python,MATLAB]   10/2018 - 06/2020

Conducted the research about an axial flux PM Flywheel Motor and a high-speed high-power motor, including improve the algorithm to reduce the simulation time, developing an optimization method to get the optimal result quickly and controlling the motor by DSP.

∗ Developd an algorithm which can cut down 70% time cost of optimization and improve 61% reliability

∗ Combined the analytical algorithm with particle swarm method in MATLAB for fast-optimization.

∗ Controlled the motor with DSP,including TMS320F28069, TMS320F28335 and TMS320F28034.