Ding Ruiyang | Curriculum Vitae

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Education

ShanghaiTech University

Shanghai, China

Computer Science & Technology, Master of Science in Engineering

2017-

China University of Petroleum

Qingdao, China

Automation(Elite Class), Bachelor of Science in Engineering

2013-2017

Working Experience

UAV-CL Lab, ShanghaiTech University

Shanghai, China

Research Assistant

March 2017-

Develop an UAV simulation system with UE4 game engine, verify navigation algorithm under this simulator. Develop an UAV control system with DJI SDk

- Develop uniform C++ API interface for api control and data collection with LiDAR, ZED stereo camera, etc.
- Develop user interface of status display and point cloud visualization with OpenGL.
- Integrate point registration algorithm, and path-planning algorithm into the system.

Honor

2015 National Undergraduate Electronic Design Contest 2015.09, Hangzhou, China China National Petroleum Corporation Scholarship 2015.11, Qingdao, China

National First Prize Top 1% RMB 6000 1/123

Projects

- ShanghaiTech Teacher-Student Matching System: A platform for graduate admission https://github.com/JohnDing1995/Selecting-Master-Program-USA
 - Develop an graduate admission platform with Django framework.
 - Develop an CAPTCHA generation system with JavaScript to prevent malicious registration.
 - Use auth module to develop the user system.
 - Use relational database to represent the selection model between teacher and student, use MySQL for implementation.
 - Develop and web crawler to sync teacher's information form ShanghaiTech's website and generate teacher's account automatically, with *request* and *BeautifulSoup* module.
 - Use Deferred Acceptance Algorithm for matching between teachers and students.
- Master Application Helper An assistant for graduate school selection https://github.com/JohnDing1995/shanghaiTechTSmatching
 - Develop an web crawler with *request* and *asyncio* module to fetch admission case from 1point3acres.com asynchronously.
 - Use MongoDB for data storage.
 - Use threading and Queue to solve the blocking problem between data crawling, parsing and writing.
 - Develop an web app with *Flask* web framework and *Bootstrap & JQuery* libraries, which allows users to query crawed admission cases.
 - Use WSGI, Nginx to deploy the web app on Tencent Cloud.

- o SCATicket ShanghaiTech Cinema Seat Reservation System
 - Use Django to build back-end services, design and implement RESTful API
 - Use Django-Jet to set up the background management system
 - Design a relational data model and implementing it with MySQL
 - Design background for visualized seating selection, user selection, seat reservation and other functions
 - Use the Django-mail toolkit to automatically send confirmation emails to the user's on-campus mailbox

Technical and Personal skills

Programming Languages:

C++, Python, Java, Golang.

Tools and FrameWork:

Linux, Git, MySQL, MangoDB, Django, Flask, Bootstrap.

(Nature)Language Skills:

Chinese(Native), English(Proficient, TOEFL 101), Dutch(Beginner).