Jie Yuan

https://penguinflys.github.io/penguinflys/about

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EDUCATION

Leibiniz Universität Hannover — Hanover, Germany
Master of Science in Computer Science — *Oct. 2017 – Feb. 2021*

China University of Mining and Technology — Xuzhou, China
Bachelor of Engineering in geodesy and geoinformatics; GPA: 3.57 (9/157) — *Oct. 2013 – July. 2017*

EXPERIENCE

Zhonghong Geodesy Technology Research Institute — Changzhou, China
surveyor — *Jan. 2017 - July. 2017*

- **Survey Plan Design**: Estimation of surveying accuracy and feasibility & Design of surveying schedule
- **Result Adjustment**: Adjustment of the GPS antenna collected data & Surveying result report.

IKG in Lebiniz University — Hanover, Germany
GUI Programmer for HD Mapping system (part-time) — *Feb. 2018 - Sep. 2018*

- **GUI Design**: Design multiple interfaces under tabs for different threads with Qt5 library.
- **Multi Threading**: Configuration of front end and back-end process in multiple tabs.
- **Sensor Data IO**: Automatic data transferring from sensors to HD mapping system.
- **Scene Visualization**: Visualization of a fused 3D scene of point cloud and binocular camera.
- **Algorithm Adaptation**: Adapt some new research algorithms to the mapping system.

IKG in Leibniz University — Hanover, Germany
Labor Mentor (part-time) — *Apr. 2018 - Apr. 2019*

- **Labor Supervision**: Help the students on a labor on poles detection with point cloud data.
- **Result Examination**: Check the result of labor and homework

Rainbow Business Solution GmbH. — Hanover, Germany
Office Worker/Reception (part-time) — *Oct. 2018 - Jan. 2020*

- **Office Works**: Run the daily business by calling, answering and arrange meetings, organize files, paying bills, fix computers, routers and printers.

IPI in Leibniz University — Hanover, Germany
Research Assitant (part-time) — *May. 2019 - Feb. 2020*

PROJECTS

- **Digital Earth based on WMS**: Creating an Digital Earth model with icosahedron grid technique visualizing multiple thematic maps via WMS in large scale.
- **LEGO Courier Student Toy Project**: Apply SLAM techniques on LEGO Robot in a scenario of delivering task.
- **Dynamic Landmark based Visual Odometry(SFM)**: Motion Reconstruction with feature points matching in RANSAC framework.
- **Object Tracking and Motion Prediction via KFs.**: Preceding cars motion prediction via Kalman filter
- **Real-time HD Map Calibration with Multiple Lidars**: Realtime calibration of LIDAR data for accurate mapping
- **Trajectory Estimation with GPS + IMU based on Set-membership Kalman Filtering**: Research Project on sensor fusion with Set-membership Kalman Filtering
- **PanUrban Dataset**: Developing ISPRS 2D semantic dataset to panoptic level
- **Panoptic Segmentation in urban Area**: Developing a method to segment aerial images in urban area.

PROGRAMMING SKILLS

- **Languages**: C++, Python, etc.　　　　**Tools**: CMAKE, ROS, PCL, Pytorch, OpenCV