Honggang Gou

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Github: https://github.com/SchwartzSkipper

EDUCATION

Non-degree Program
Technische Universität Darmstadt, Darmstadt, Germany
Exchange student in Mechanical Engineering and Computer Science 09/2015-10/2016
Fully funded by China Scholarship Council
Overall of GPA: 2.55/1.0 (good)
Core Courses: Robot Learning Integrated Project, Statistical Machine Learning

Degree Program
Nanjing University of Aeronautics and Astronautics, Nanjing, P.R.China
B.Eng in Aircraft Manufacturing Engineering 09/2012-06/2017
Thesis: A Robot arm playing badminton simulated in SL-Lab
Overall of GPA: 3.6/5.0 (86/100)
Core Courses: Advanced Mathematics, Theoretical Mechanics, Electrical and Electronic Technology, Mechanical Principle and Design, Control System

WORK EXPERIENCES

HRG, HIT Robot Group, Kunshan, Jiangsu, P.R.China
Algorithm Engineer, ROS(Robot Operating System) Branch 07/2017-08/2018

- Github Page: https://github.com/hitrobotgroup
- Promoted the performance and robustness of indoor AGVs by modifying or writing ROS navigation stack, specifically the global and local planners. Wrote a local planner to generate trajectories based on bezier curves.
- Integrated and implemented existed open-source Lidar-SLAM to accommodate indoor localization and navigation.
- Managed the public github account of ROS developers belonged to our group.
- Exhibited in several leading fairs of Automation and Robotics, Auomatica in Munich Germany and CeMAT in Shanghai China, not only demonstrating AGVs in motion but also delivering English presentations to visitors.
- Responsible for certain implementations of AGV projects in the factories and warehouses of clients, such as Harman Kardon(Suzhou) and Innolux Corporation (Shanghai).

PROJECT EXPERIENCES

Autonomous System Lab, Technische Universität Darmstadt, Darmstadt, Germany
Robot Learning: Integrated Project Part I 04/2016-10/2016

- Participated in an Integrated Project, Robot Badminton, a robot arm to play badminton, of Autonomous System Lab in the Robotics Branch of Computer Science, majorly programming in C.
- By utilizing kalman filters, the dynamic trajectories of a flying shuttlecock and feasible hitting position were predicted. And by implementing the minimum jerk controller by adapting the Transpose Jacobian method, the simulated movement of manipulator was smoothened.
- With the help of the Simulation Lab developed by Prof. Stefan Schaal, we completed an autonomous simulated methodology for a robot arm to play badminton in Simulation Lab.

Supervisor: Boris Belousov and Jan Peters.

ACADEMIC SKILLS

Programming— C/C++, Matlab, Julia; Script(Python, Shell); Markup(LaTeX, XML); System(ROS, Ubuntu, Git)
Languages— English: TOEFL.IBT(99), GRE(323: Verbal 158, Quantatitive 165)

EXTRACURRICULUM ACTIVITIES

Student Affairs Service Center, NUAA, Nanjing, P.R.China
Volunteer, Director of Service Branch 09/2012-09/2013

- Worked as a volunteer for one year in a students' organization to help freshmen with enrollment and academic affairs.
- Participated in the recruitment as the director of service branch. Completed a new version of Service Guide for training the newcomers.

GRANTS AND AWARDS

- 2nd Scholarship, Merit Students, NUAA AY 2012-2014
- Excellent Volunteer, Student Affairs Service Center, NUAA 10/2013
- China Scholarship Council (CSC) Exchange Student Scholarship, NUAA 05/2015
- TU-Darmstadt Semester Scholarship, Deutscher Akademischer Austausch Dienst(DAAD) 11/2015