

Yang Qiao

Recently received joint master degree from UTC Sorbonne and UNIGE in computer engineering, I focused on studying real-time system, embedded system, and complex interactive system. I took extensive courses in Mathematics, Computer Science and Automatics. As part of the curriculum, I participated in several group projects which include building an autonomous system for Renault electric vehicle from scratch with professor Philippe Bonnfait and developing interactive virtual reality system using Myo armband and Oculus Rift head-mounted display with professor Indira Thouvenin. During my stay in Italy, I've accomplished a project on the control of humanoid robotic hands with Leapmotion hand tracker over ROS with professor Fulvio Mastrogiovanni. With professor Massimo Paolucci, and Louise Brasseur we designed and implemented a meta-heuristic algorithm for Green Vehicle Routing Problem (GVRP) which gives a great result within linear time complexity.

For my extensive software developing experience, in 2014 and 2015, I was selected to join the Google Summer of Code to be part of the KDE open source community and RTEMS (Real-Time Executive for Multiprocessor Systems) open source community. I successfully ported the KDEConnect project to iOS platform and developed multiple plug-ins which allow users' desktop connect to their portable devices seamlessly. For RTEMS, I developed graphics drivers of board support package for raspberry pi and ported the graphics libraries into their new building system. These experiences strengthened my self-study, information searching, and software architecting ability. In 2016, I participated in smart object design competition 'Parrot Award 2016' with a team of four. We have beaten all other projects from other top French Universities and won the chance to join the 2017 CES show in Las Vegas.