

Shihan Ma

Shanghai Jiao Tong University, Shanghai, P.R.China

Email: mmasss@sjtu.edu.cn

Education

Shanghai Jiao Tong University, School of Mechanical Engineering Shanghai
Bachelor in Mechanical Engineering 2014.9-2018.7

- GPA:4.0/4.3, Rank: 1/142
- Honors: 2014-2015 and 2015-2016 National Scholarship (top 2%), 2015-10 University-level Merit Student, Meritorious Winner in 2017 Mathematical Contest In Modeling.
- Relevant Coursework: Program Design (C++), Advanced Mathematics, Modeling, Analysis and System Control, Methods of Mathematical Physics, Theoretical Mechanics, Introduction to Robotics.

Research Experience

Shanghai Jiao Tong University, School of Mechanical Engineering Shanghai
Motion Planning of Transferring Robot in Automatic Stamping Line 2015.10-2016.4

- Established the kinematic model of a serial-parallel hybrid transferring robot. Planned the optimal trajectory of the end-effector.
- Carried out a nonbreaking working plan for robots in a press line.
- Based on ProE software, established a prototype of press line, verified the validity of the motion plan.

Shanghai Jiao Tong University, School of Mechanical Engineering Shanghai
A Wearable System for Accurate Gesture Recognition 2016.4-2017.9

- Improved the circuit design of the electrical wristband. Made a prototype.
- Integrated the data from IMU and sEMG to gain the feature parameters. Trained the classifier based on these features to recognize natural gestures of users.
- Applied the wear band to smart home facilities such as smart TV based on IR control.

University of Illinois at Urbana-Champaign, DynamicRobotics Laboratory Champaign, IL
Foot Design for Quadruped Robots with Wall Climbing Capability 2017.7-2017.9

Extracurricular Activities

Shanghai Jiao Tong University, Students Affairs Center Shanxi
Provincial Grands Investigation Program 2015.6-2015.9

- Leader of investigation team in Shanxi Province, arranged investigation route.
- Investigated students' family income condition, helped poor students apply financial assistance.

Shanghai Jiao Tong University, SJTU Volunteer Organization Shanghai
Volunteer in the 120th anniversary of Shanghai Jiao Tong University 2016.1-2016.2

- Awarded "Excellent Volunteer Certificate" by school.

Skills

- Language: TOFEL: 107 (Speaking: 24), GRE: 325+3.5.
- Proficient in MS Word, Excel, Photoshop. Mastery of MATLAB, ADAMS, Solidworks. Skilled in C++.