

ZHANG XIU



Personal Information

Date of Birth: 09/22/1995

Gender: Male

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Add: Politecnico di Milano – Campus Colombo
Via Giuseppe Colombo, 40,
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Education Background

09/2021-present: Politecnico di Milano

Major: Bioengineering

Research Topic: Modeling and Control of Steerable Catheters

10/2018-04/2021: Politecnico di Torino

Major: Mechanical Engineering

GPA: 105/110

09/2013-06/2017: China University of Mining and Technology (CUMT; 211 Project)

Major: Mechanical Engineering (Distinguished Engineer Class)

GPA: 3.59/4.0

Projects Experience

09/2021-present ARTERY Project

Member

- ✧ Responsible for designing the control algorithm of the robotic catheters in structural intervention cardiology

11/2015-08/2016 Robomaster CUMT-DJI-Laboratory

Member

- ✧ Responsible for the 42mm golf ball launch system, innovated a three friction wheel launch system with Magnus effect.
- ✧ Designed a test platform by using 3-D printed components.

09/2015-06/2016 Jiangsu Undergraduate Mechanical Innovational Design Competition

Group Leader

- ✧ Designed a machine that helps people carry large cargo upstairs and assembled a prototype

Publications

Zhang, Xiu, et al. "Robotic Actuation and Control of a Catheter for Structural Intervention Cardiology." 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). IEEE, 2022.

11/2016 Authorized a patent of utility model (First author; the High-power magnetorheological speed regulating device; CN205669566U)

02/2016 Authorized a patent of invention (water-cooled multi-disk magnetorheological speed regulating device; CN105299086A)

Internship

10/2016-01/2017 Bosch Rexroth Wujin Plant

Department of Research and Development (Internship)

- ✧ Developed a software named AUTOBOM independently, which can help the engineer to create the bill of materials automatically. The program was developed in Visual Basic and was deployed officially after 11 generations of revises.

Oversea Experience

05/2021 Belgium, KU Leuven, Robot-Assisted Surgery Group

- ✧ Developed the path tracking control algorithm for the tendon-driven steerable catheter.

07/2016 US, University of Kentucky, CUMT Summer Mining Engineering Program

- ✧ Invited by the University of Kentucky; Studied some courses in English such as PLC from Rockwell, Basic Economics, and Mining Machine.

Honors & Awards

- ✧ 07/2016 First Place in Robomasters National Student Robot Competition
- ✧ 06/2016 Second Place in Jiangsu Undergraduate Mechanical Innovative Design Competition
- ✧ 03/2016 Second Place in CUMT Mechanical Design Competition
- ✧ 12/2014 Second-class scholarship to CUMT

English Proficiency & Skill Certificate

- ✧ English: IELTS7 (Listening7.5; Reading8; Writing6; Speaking6.5); Test taken on Nov7, 2020
- ✧ Skills: AutoCAD; Solidworks; MATLAB; PLC; Visual Basic; Python; Arduino; ROS

Hobbies

- ✧ Trombone, Fitness, Soccer, Reading, Travelling