

ZHENG Fan

PhD student in Mechanical and Automation Engineering, The Chinese University of Hong Kong

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Education

2010-2014 Bachelor, Mechatronic Engineering, Zhejiang University

2014-2018 PhD, Mechanical and Automation Engineering, The Chinese University of HK

Research Interest

Vision Based Localization & Visual Servo of Robots

Unmanned Aerial Vehicles

Teaching Experience

2014/2015 TA, MAEG 3010 Mechanics of Materials

2014/2015 TA, MAEG 4050 Modern Control and Theory

Project Experience

2012-2014 Development work in humanoid football player robot team ZJUDANCER

-- Our team develops kid-size humanoid football player robots

-- My work: design robot mechanical structure and build 3D model in SolidWorks

-- Championship in 2013 RoboCup China; Top 8 in 2014 RoboCup in Brazil

2013 Internship in Atlas Copco (Wuxi)

-- Develop a robotic arm for deburring compressor rotors

-- Design a six-servo robotic arm model with partner; achieve the algorithm for inverse-kinematics; program in Arduino to control motion; program in Qt to create interface

2013-2014 Development of test platform for tactile sensors for robotic arm

-- Final year project

-- Develop a mechatronic platform with 3-D translation and 3-D rotation, which can concisely move the stimulator to execute test work on tactile sensors

2014- Vision based localization and control of UAV

-- To achieve localization and trajectory control with sensor input only from monocular camera and IMU

Social Work Experience

2014 Student helper, ROBIO 2014 international conference

2015 Student ambassador, HKPFS Summer Workshop of Engineering Faculty, CUHK

Honors and Awards

2012 National Scholarship

2013 Championship in 2013 RoboCup China, Humanoid Kidsize

2014 Top-8 Team in 2014 RoboCup, Humanoid Kidsize

2014 Hong Kong PhD Fellowship