

SHEN YI

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Objectives

- To earn a graduate degree in Electrical and System Engineering
- To work as an engineer in my relevant field

Education Background

School of Control Science and Engineering (SCSE)

Shandong University, Jinan, Shandong Province, China

B.E. in *Automation (Brilliant)*

Expected June 2017

GPA: 88.64/100

Honors: 2013-2014 Second-class scholarship at Shandong University

2014-2015 Third-class scholarship at Shandong University

2015-2016 Exchange student scholarship at Shandong University

2014 Hosonic Electronic Co., Ltd. Scholarship

School of Electrical Engineering

August 2015-December 2015

Korea University, Seoul, South Korea

GPA: 3.38/4.5 (87.2/100)

Honors: Global Korea University scholarship

Research & Competition Experience

Senior Design Project

Mobile Robot Planning Algorithm

Jan. 2017 –Present

Independent project

- Wrote an overview on planning algorithms, compared their pros and cons and fulfilled different algorithms by programming in MATLAB, Visual C++ and Python.
- Built the simulation environment in *ARIA* and *MobileSim* and applied them into mobile robot *Adept*.

Ball Detection Project

Color Learning and Target Detection

Sep. 2016 –Nov.2016

Independent project

- Estimated a Gaussian model for the ball color, and developed a ball detection function based on the color model.
- Collected color samples from the training images, visualized and observed the color distribution of the collected samples by using MATLAB.
- Computed the location of the new ball and applied filtering on the RGB image using binary process.

ROBOWORK(China Engineering Robotics Competition)

Gymnast Robot: First-class Prize

Apr. 2016 –May.2016

Rizhao, China

- Rethought and summarized the drawbacks of the first competition and solved several significant bugs by changing the control array code to meet reality rather than computing theoretically.
- Designed a new circuit board with optimized chips, robot actions and mechanical structures, and introduced an upper computer for testing and programming.
- As the group leader, recruited new team members, introduced the project to the, and made plans for the group's work according to each person's strengths.

Gymnast Robot: Second-class Prize

Jul. 2015 –Aug.2015

Huai'an, China

- Designed the control and drive circuit, chose the appropriate chips and servo motors, and welded the circuit board.
- Responsible for servo motor control programming and circuit output testing work in the competition, designed each movement for the gymnast's actions.
- As the team leader, managed a team of three students from different majors to work together; made time-schedules and delegated programming, circuit design and configuration design work to team members.

Internship & Work Experience

B&R Industrial Automation

Internship

Jan.2017–Present

Shanghai, China

- Worked in Supporting & Training team, created project plans, developed and documented control application designs for MOOC training.
- Got accustomed to motion control systems, IEC 61131-3 programming languages and PLC open functions, learnt the basic knowledge about PLC market and corporation between companies and universities.

School of Control Science and Engineering, Shandong University

Teaching Assistant (Linear Algebra)

Sep. 2016 –Jan.2017

Jinan, China

- Corrected students' homework and provided feedback to the professor
- Mentored and answered questions from students

Extra-curricular Activities

- Honorary title of Excellence Publicity Figure of Shandong University Sep. 2015–Jun.2016
- Second place at the Science and Technology Innovation Competition at Shandong University Mar. 2016
- Head of the News Media Division of the SCSE Student Union Sep. 2014–Jun.2015
- Honorary title of Outstanding Individual of Shandong University Sep. 2014–Jun.2015
- Third place at the Energy Saving and Emission Reduction Contest at Shandong University Nov. 2014
- Project leader of Shandong University Orientation for international exchange students Feb. 2015
- First place at the "Challenge Cup" Student Business Plan Competition at Shandong University Jun. 2014

Additional Skills

- Language skills: TOEFL IBT: 101; GRE: Verbal 153, Quantity 170;
- Computer skills: Master of C, Python; Proficient in MATLAB; MATHCAD; LaTeX; Adobe After Effect; Corel Video Studio; Automation Studio.