PEIYAO ZHOU

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EDUCATION

Nankai University Tianjin, China

Bachelor's program of Electronic Science & Technology 09/2013-06/2017

- Cumulative GPA: 90.76/100, Major GPA: 92.14/100, Rank: 1/36, Credits Earned: 150

University of California, San Diego San Diego, California

Summer Session, Courses: Linear Algebra, Psychology 08/2014-09/2014

- GPA: 3.5/4.0, Credits Earned: 8.0

TESTS

TOEFL	R 29, L 28, S 26, W 25	Total: 108	11/12/2016
GRE	Verbal 159 (82%), Quantitative 170 (97%), Analytical Writing 3.5 (42%)		11/06/2016

PUBLICATION & PATENTS

Tian, H.F., Wang, Y.N., and Zhou, P.Y. (2017) "Analysis on the Development Trend of Adaptive Control Theory and the Applications on Electric Machine Control", International Conference on Computer Communication and Informatics (ICCCI), Jan. 05-07, 2017, Coimbatore, India.

Sun, G., Yang, P., Li, Y., Zhou, P., and Liu, J. 2016. A Student Personal Information Management System Based on Fingerprint Identification and Safe Data Transmission. China Patent Application 201621402977.7, filed December 2016. Patent Pending.

Sun, G., Yang, P., Li, Y., Zhou, P., and Liu, J. 2016. A Data Encryption Method Based on Improved AES Algorithm. China Patent Application 201611185927.2, filed December 2016. Patent Pending.

RESEARCH PROJECTS

A UAV (Unmanned Aerial Vehicle) Auxiliary System Applied in Intelligent Transportation

A Prize-Winning Work in National Undergraduate Intelligent Internet Innovation Contest 07/2016

- Constructed a UAV and completed flight control algorithm
- Realized wireless radio frequency transmission of aerial images to upper computer
- Computed vehicle flow rates based on image recognition algorithm

A Biological Big Data Analysis by Random Walk Algorithm

A Research Project Completed in China Academy of Sciences, Advised by Dr. CHEN Xing 01/2016-02/2016

- Predicted correlation between genes, environmental factors & disease by random walk algorithm through the use of MATLAB
- Proposed combination of network-based inference & random walk as an algorithm for accurate prediction
- Compared AUC (Area under roc Curve) value to decide predict accuracy of different algorithms

The Design of 4-rotor Automatic Aircraft

A Prize-Winning Work in National College Students Electronic Design Contest 08/2015-09/2015

- Made a 4-rotor automatic aircraft using STM 32f407, MPU-6050 and OV7620, which is able to fly at a designated height, between fixed points, or tracking a black line on white floor
- Proposed and programmed for tracking route image analysis algorithm, designed a double-closed-loop PID algorithm and set relevant parameters, and wrote the research report

A Student Personal Information Management System Based on Fingerprint Identification

A Nankai University Undergraduate Innovation and Entrepreneurship Training Program 03/2015-Present

- Wrote upper computer software based on C#, constructed database to store and manage encrypted fingerprints and student information based on SQL Server and connected the two
- Constructed encrypted communication junction between fingerprint terminals and upper computer
- Accelerated and optimized encryption algorithm

Distance Measurement Based on "MSP430" Ultrasonic Wave

A Project in "TI" Cup Electronic Design Contest 2014

- Led a group to make a ultrasonic velometer based on MSP430, US-100 and LCD-1602

INTERNSHIP

Schneider Electric 11/2016-Present

- Developing SC (Supply Chain) auto tools and standard simulation tools based on SQL, C# and VBA
- Performing database programming for SC data validation and alarm

Tianjin Third Railway Survey and Design Institute Group Corporation (TSDI) 07/2016-08/2016

- Participated in the designs of information system, automatic fire alarm and disaster prevention system for high-speed railway

House VR 03/2016-05/2016

- Translated the FBX SDK technological documents & teaching videos of Stingray engine from English to Chinese and added Chinese subtitles to the videos

AXA Company 02/2015

- Participated in PR challenge match, investment contest & business planning competition, gained a first prize in the business planning competition, and understood more about financial knowledge & team cooperation

HONORS & PRIZES

First Prize	*Tianjin Internet of Things Competition*	11/2016
National-Level Second Prize	*National Undergraduate Intelligent Internet Innovation Contest*	07/2016
Honorable Mention	*Mathematical Contest in Modeling*	01/2016
First Prize	*National Scholarship*	10/2015, 10/2016
Third Prize	*Tianjin Internet of Things Competition*	10/2015
National-Level First Prize	*National Undergraduate Electronic Design Contest*	09/2015
Comprehensive First Prize	*Nankai University Scholarship*	10/2014

LEADERSHIP AND ACTIVITIES

Officer	*Department of Professional Development, Student Union, College of Electronic Information & Optical Engineering, Nankai University*	08/2013-08/2014
Member	*Duolong Electronic Society, Nankai University*	2013-Present

IT SKILLS

Computer languages: C, C++, C#, Python, VBA

Programming Software: Visual Studio

Data Analytical Software: MATLAB

Micro Controllers: STM32, MSP430

Embedded Development: Keil, Code Composer Studio

Operating Systems: Windows, Linux

HOBBIES

- Surfing Do You Know? (a Chinese-version Quora) & Nutshell (a general science-themed website)
- Participating in the online technology communities, such as CSDN, Electronic Fans
- Learning online by Coursera and NetEase Cloud Classroom