YIHENG CHI

chi14@purdue.edu
(765)430-5512

3811 Campus Suite Blvd Apt 321D
West Lafayette, IN 47906

EDUCATION

Purdue University, West Lafayette, IN   May 2018
Bachelor of Science in Computer Engineering
GPA: 3.97/4.00

Technical Skills: Python, Java, Matlab, C, C++, Verilog, TensorFlow, LaTeX, GitHub, Microsoft Excel
Other Skills: Fluent in Mandarin, Intermediate in Cantonese
Other Coursework: Japanese Level III

PROFESSIONAL EXPERIENCE

General Electric, Shanghai, China   Jun 2016 – Jul 2016
Engineering Intern
- Developed a geometric model using Python to implement a tool joint locator based on hypersonic transducer data
- Created an analyzation tool for Architecture Analysis & Design Language (AADL) to find the critical paths of systems

Cogitr, Inc., Shenzhen, China   Jun 2015 – Aug 2015
Webpage Programmer
- Applied HTML, CSS and Javascript programming skills to the implementation of the homepage for Cogitr, Inc.
- Collaborated with other programmers using GitHub and online platforms including Moxtra, Trello and Slack

RESEARCH EXPERIENCE

Statistical Signal and Information Processing Lab, with Prof. Stanley H. Chan, Purdue University   Dec 2016 – present
Research Assistance
- Developed a very fast image denoising algorithm based on recursive filter for computational photography applications
- Wrote and submitted a conference paper to ICASSP 2018

Machine Learning Lab, with Prof. Guang Lin, Purdue University   Sep 2016 – August 2017
Research Assistance
- Developed a machine learning algorithm to locate pollution source given diffusion portfolio
- Created a mathematical model using Python to predict the price fluctuation of stock price and to provide trading direction

ENGINEERING PROJECTS

Huffman Encoding with Encryption ASIC, Purdue University   Mar 2016 – May 2016
ECE337 Student
- Designed an application-specific integrated circuit (ASIC) implementing Huffman encoding and encryption
- Modeled and generated layout of ASIC using Verilog and SOC Encounter
- Collaborated with three teammates to produce, test and debug the ASIC design

8-Beat Rhythm Game, Purdue University   Apr 2015 – May 2015
ECE362 Student
- Designed and produced a music game machine using acrylic buttons and LEDs and controlled by microcontroller 9S12C
- Programmed software of microcontroller and PLDs for LCD and LED matrices using C and ABEL
- Collaborated with three teammates to construct the circuit and debug the software

LEADERSHIP EXPERIENCE

Purdue University Chinese Students and Scholar's Association (PUCSSA), Purdue University   Sep 2014
Bilingual Career Fair Project Main Manager
- Led a 5-member team to manage invitations of bilingual student associations attending Bilingual Career Fair

TEACHING EXPERIENCE

Purdue University, ECE 26400 – Advanced C Programming Undergraduate Teaching Assistant   Jan 2016 – Jun 2016

HONORS and AWARDS

Purdue University, Dean's List & Semester Honors   Jun 2017, Dec 2016, Jun 2016, Dec 2015, Jun 2015
Excellent Research Paper of Secondary Schools Students in China, the first prize   Dec 2013