

HUBERT DENG

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EDUCATION

University of Illinois at Urbana-Champaign

Expected Graduation Date: May 2020

B.S. Computer Engineering

3.68/4.0 GPA

Relevant Coursework:

- **Computer Science:** Discrete Structures (CS 173), Data Structures (CS 225)
- **ECE:** Computer Systems Engineering (ECE 391), Analog Signal Processing (ECE 210)

PROFESSIONAL EXPERIENCE

Research, Technical University of Denmark

June 2017- August 2017

Automation and Control

Lyngby, Denmark

- Developed project written in Python that achieved supervised learning in robotic joints
- Worked with code featured a Spiking Neural Network simulated on SpiNNaker
- Expanded on a closed loop feedback controller that included a cerebellar microcircuit to mimic the learning of the human cerebellum
- Tested the scalability of a neuro-inspired robotic controller to control robotic joints through the expansion onto a system of robotic modules

Software Engineering Intern, Meiya Pico

June 2015- August 2015

Team Member

Xiamen, Fujian, China

- Developed an application to retrieve information from websites in Python with five other team members using the BeautifulSoup package
- Designed a GUI interface that helped the company retrieve data from a variety of sites
- Project parsed through HTML to sort the websites based on date and relevance
- Application used by the company to retrieve recent relevant data for the news team

PROJECTS

Operating System

February 2017-Present

- Linux operating system coded in C and x86 Assembly
- Implemented processor initialization including paging, IDT, GDT, and devices
- Loaded terminal driver, file-system, and real-time clock driver
- Supported system calls and task scheduling, with userspace and kernel space execution

Personal Website (hosted with Github Pages)

Dec 2017-Present

- Developed personal website written in HTML, CSS, and Javascript
- Used Bootstrap and JQuery libraries to design the interface of the site

Autonomous Moving Car

Aug 2016-Dec 2016

- Created a line following car powered by Arduino RedBoard navigating through sensors
- Coded in C to decipher the signals being sent from sensors to the Arduino RedBoard

TECHNICAL SKILLS/INTERESTS

- **Programming (Proficient):** C++, C, Java, Python, x86 Assembly
- **Programming (Basic):** MATLAB, Arduino, HTML, CSS, Javascript
- **Tools:** Git, Apache Subversion
- Fluent in Mandarin