Haikeng Chen

Personal Info

Date of Birth: 28 October 1993
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Education

Nov 2016 **Bachelor of Engineering**
Mechatronics Major, Robotics Minor, Mathematics Minor
Queensland University of Technology, Brisbane, Australia
GPA : 6.7/7.0

July 2012 **High school**
Cambridge International Centre of SNU, Shanghai, China

Awards

Impact ambassador for brand 2018
by Siemens Australia

Finalist Rookie Engineer of the year 2017
by Siemens Australia

Dean's List of Students with Excellent Academic Performance 2014 & 2015 & 2016
by QUT Science & Engineering Faculty

Experience

Feb 2017 -*Current*
Pre-sales Solution Architect
at Siemens Australia
Managed a team of 5 to support the Siemens MindSphere Industrial IoT platform. Deep involvement in the regional G2M strategy planning, regional marketing, pre-sales consulting, technical support, local technical team development as well as partner management. Engaged with end-customers alongside our key account managers to co-create custom Industrial IoT solutions which delivers improved efficiency and new business models.

Feb 2016 -Jan 2017
Electrical Engineering Cadet
at LEHR Consultants International
Lehr is an engineering building services company offering electrical, mechanical and environmentally sustainable design services. I assisted in electrical services design and documentation, preparation of drawings, speficications, site surveys, audits and budget estimates.

Feb 2015 -Nov 2016
Sessional Academic Staff
at Queensland University of Technology
Computer lab tutor and practical lab instructor for EGB120 - *Foundations of Electrical Engineering*, ENB240 - *Introduction to Electronics*, ENB 243 - *Linear Circuits and Systems* and EGB 301 - *Instrumentation and Control*. Provided weekly tutorials on circuit design and analysis, assisted students with electrical lab experiments.

Projects

2018 | **IoT for Craft Breweries**
Siemens Australia
Hosted a few co-creation/consulting sessions with an OEM customer who produces fermentation vessels for craft brewing. Designed a solution with the customer to allow them to provide data-as-a-service to their end customers via a web application to visualise the brewing process and select the best batches in order to find the best brewing conditions using machine learning. This also allowed the OEM to migrate to prescriptive servicing as they now have transparency on how their equipment is used. This solution was done in house alongside 2 part time developers.

2018 | **Regional Product Hard Launch — MindSphere, IIoT Platform**
Siemens Australia
MindSphere is an Industrial IoT platform from Siemens which aims to standardise industrial cloud solutions on one platform. By hosting co-creation sessions, understanding the customer's business and rapid prototyping, I delivered bespoke solutions for pilot customers to establish first success stories for the platform. I also managed partner relationships by assisting their migration of existing and new solutions on to the platform. All activities contribute to a product hard launch event at Swinburne University with 8 foundation partners as well as 6 local use cases within 5 months. launch video here

2017 | **Dulux Merrifield HMI Digital Twin**
Siemens Australia
Delivered a simulation of the full production controller hardware as well as interface for the Dulux Merrifield factory, simulation was done using SIMIT, a Siemens software. Having a virtualised hardware allowed the development team to develop the control software on the actual controller hardware while the testing team tested the updates on the simulation. This not only cut development time by at least 8 weeks, the simulation was then used for the on-boarding of new plant employees who would learn the operation on the simulation before working on the actual factory.

2016 | **Mini Segway**
Queensland University of Technology
Modeled and simulated in MATLAB & Simulink, built with NXT and programmed in robot C, a water bottle sized segway capable of driving through uneven terrain with some degree of disturbance rejection. Utilised state-space modern control techniques. I also derived benchmark tests for the system performance.

2016 | **SLAM for Mobile Robot**
Queensland University of Technology
A mobile robot with rasberry pi 2 tasked to navigate and map a field. Developed and implemented Kalman Filters and Simultaneous Localization and Mapping systems.

2015 | **Small Size League Robot**
Queensland University of Technology
A soccer robot using an Android phone with on-board vision and navigation systems, omni-directional drive system, and a solenoid kicker. I am behind the programming of the navigation and AI for this robot. I have also made a video on this project.

2015 | **3D Printer**
Personal
Parts ordered from China, a budget custom-built reprap 3D printer for uni projects and various personal needs. Built and calibrated the printer.

Computer Skills

Basic Knowledge:	ReactJS, NodeJS, PCB design, 2D & 3D Cad Design, Android, C, Java,
Intermediate Knowledge:	Python, Javascript & HTML, MATLAB & Simulink, LaTeX, GNU-Linux

Interests and Activities

Technology, Reading, Podcasts, Photography, Hackathons
Martial Arts, Fitness, Basketball, Travelling, Swimming