

Karan Shah

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1637 Orrington Apt# 607, Evanston, IL 60201

PROFESSIONAL EXPERIENCE

Merlin Solar Technologies, USA *Engineering Intern*

Jun 2017 – Sept 2017

- Developed a system for transferring data from solar modules and remotely sending it to user.
- Assembled and designed data logging product for real time visualization of voltage and current.
- Worked in a team of 4, for designing a LabVIEW project that plots real time data from DC Electronic Load.

Emerson Network Power, India *Trainee Intern*

Jun 2015 - Jul 2015

- Studied and examined various components used in UPS, DC power System and AC power System.
- Carried out different tests for UPS and DC power unit.
- Accomplished the task of checking the connections in different power systems.

Omicron Sensing Pvt. Ltd, India *Trainee Engineer*

Nov 2014 - May 2015

- Accomplished the task of testing and debugging various products used in communications.
 - Manufactured PCB layout for communication system containing components such as Wi-Fi, GSM, Zigbee etc.
 - Managed a team of 8 people for developing low cost modules and marketed the product for the company.
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PROJECTS

Personalized Display Frame

Jan 2017 – Jun 2017

- Developed an embedded system that displays personal information of the user such as pictures and calendar.
- Designed the database for connecting the system to user's phone
- Accomplished the task of designing the webpage along with the hardware connections between different components.

IoT based Home Automation System

Mar 2017 – Jun 2017

- Developed an embedded system that can control home appliances through a website.
- Worked in a team of 3 people for designing the system using IBM Bluemix platform and Raspberry Pi.
- Successfully tested the system to control refrigerator, air conditioner, lights and fans.

Power House Surveillance

Mar 2017 – Jun 2017

- Designed a surveillance system using webcam development board.
 - Worked in a team of 2 for configuring raspberry pi as a server and webcam board as a client.
 - The board was equipped with PIR motion sensor and pan-tilt base for motion tracking.
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COURSES

Graduate Courses: Internet Security, Biometrics, Design and Analysis of Algorithm, Microprocessor System Design – 1, Engineering System Design – 1, Digital Filtering, Microprocessor System Design – 2, Embedded System Design and Synthesis, Internet of Things, Engineering System Design – 2, Introduction to Computer Vision, Advanced IC Design.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Embedded C, HTML, CSS

Simulation Software: MATLAB, AutoCAD, OrCAD, Xilinx, Model SIM, LT Spice IV, Cisco Packet Tracer, Proteus, Microwind 3, Android Studio, Eagle 7.7

EDUCATION

Northwestern University, Evanston, IL

Anticipated Dec 2017

Master of Science in Computer Engineering

D. J. Sanghvi College of Engineering- Mumbai University, India

May 2016

Bachelor of Electronics & Telecommunication Engineering