Karan Shah

karan.shah04050@gmail.com | Cell Phone: (224) 307-6402 | 10467 White Rose Lane, San Diego, CA 92127
https://www.linkedin.com/in/karan-shah/ | https://kks3851.github.io

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 (Vertiv), 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.

PROJECTS

Switched Capacitor DC-DC Converter   Sept 2017 – Dec 2017
- Designed a 2:1 voltage regulator with 2 phases.
- Used a reference paper to finalize the circuit and tested their goal
- Used Cadence Virtuoso to design the circuit and implemented the same.

Power House Surveillance   Jan 2017 – Jun 2017
- Developed an embedded webcam that can be controlled through a website.
- Developed a surveillance system using the embedded webcam board.
- The system was equipped with PIR motion sensor and pan-tilt base for motion tracking.

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.

COURSES

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

Online Courses: Machine Learning, Introduction to Verilog and VHDL, Introduction to Operating Systems, Embedded System Design with Xilinx and FPGA, Linear Regression and Modeling

TECHNICAL SKILLS

Programming Languages: C/C++, Python, VHDL, Verilog, R, HTML, CSS

Simulation Software: MATLAB, Onshape CAD, OrCAD, Xilinx Vivado/ISE, Model SIM, LT Spice IV, Cisco Packet Tracer, Proteus, Microwind 3, Eagle PCB, Cadence Virtuoso, R Studio, Spyder

EDUCATION

Northwestern University   Dec 2017
Master of Science in Computer Engineering   *CGPA : 3.7*

D. J. Sanghvi College of Engineering- Mumbai University, India   May 2016
Bachelor of Electronics &Telecommunication Engineering   *CGPA : 8.39*