Karan Shah

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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.

Vertiv formely 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.

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.

Image Mosaic   Sept 2017 – Dec 2017
- Designed a MATLAB code for stitching images.
- The function matches the features in different images and stitches them together
- The stitched images are then blended together to form a panorama

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, 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 Low Power Digital and Mixed Signal Circuit Design.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, C#, HTML, CSS, JavaScript

Simulation Software: MATLAB, Onshape CAD, OrCAD, Xilinx, Model SIM, LT Spice IV, Cisco Packet Tracer, Proteus, Microwind 3, Eagle PCB, Cadence Virtuoso, VHDL

EDUCATION

Northwestern University, Evanston, IL   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*