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.

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, Embedded C, HTML, CSS

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

EDUCATION

Northwestern University, Evanston, IL

Master of Science in Computer Engineering CGPA: 3.7

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

Bachelor of Electronics & Telecommunication Engineering

May 2016

Dec 2017

CGPA: 8.39