GAURAV PENDHARI

Seeking a summer internship opportunity in the field of computer systems Architecture & VLSI systems, hardware security

Email: gpp241@nyu.edu

Mobile No.: +1 (917) 769 9340

LinkedIn:https://in.linkedin.com/in/gaurav-pendhari

EDUCATION

MASTER OF SCIENCE COMPUTER ENGINEERING

New York University Tandon School of Engineering, Brooklyn, USA
AUG 2018 - MAY 2020

BACHELOR OF TECHNOLOG Y ELELECTRICAL & ELECTRONICS ENGINEERING

Visvesvaraya National Institute of Technology Nagpur, India
CGPA 7.08/10
Aug 2013 - May 2017

SKILLS

C++, MS office, Cadence, MATLAB, Python

HONOR

Distinguishing Graduate Trainee Engineer at Siemens

COURSE WORK

- Computer Systems and Architecture — Study of MIPS Architecture
- Introduction to VLSI — MOSFET & its application in digital logic design
- Digital Signal Processing — Real time signal analysis and processing
- Design of Feedback Control system — Mathematical study of control design theory
- Power Electronics — Power Supply circuit analysis

PROJECTS

1. Design of MIPS Simulator & Branch Prediction Simulator using C++   Sep'18 – Dec'18
   - Designing a simulator for the ISA using Object Oriented Programming with detail understanding of Architecture.
2. Design of 2 Stage OTA and Design of 256 bit SRAM in Cadence   Sep'18 – Dec'18
   - Design of Digital Logic circuit on constrained parameters of area, power consumption and other technical parameters using MOSFET technology.
3. Audio Signal Processing using MATLAB & Python   Sep'18 – Dec'18
   - Extensive audio signal analysis using Python & MATLAB which includes real-time spectral analysis, filtering audio effects, GUI etc.
4. Design and Modelling of Air cooler using Solar Power   Aug'16 – May'17
   - Designed a charge controller with maximum power point tracking algorithm and studied various types of inverters and their parameters like efficiency and output powers.
5. Micro controller ATMEGA 16   Aug'14– May'15
   - Temperature Sensing Device (for room temperature), Heartbeat monitoring system, Water level Indicator, Real-time Data Acquisition using MATLAB

WORK EXPERIENCE

Graduate Engineer Trainee, Siemens India Ltd.   July'17 – July'18

Siemens EM Division, High Voltage Business Unit Sister Concern of Siemens AG (HSP Hochspannungsgeräte GmbH, Germany & THVS Ltd, Shenyang China)

- Worked as techno-commercial engineer for product; high voltage bushings for sister concern of Siemens AG across pan India and Southeast Asia.
- Channelizing the business between the customers from India and our overseas intercompany counter parts from the factory end.
- Managed the business of size approx. 1000 million INR i.e. 14 million USD yearly

Intern, Schneider Electrics | Bangalore, India   May'16 – July'16

- Worked as a paid hardware engineer for an R and D Project for circuit analysis
- Actively involved in writing and debugging the firmware and implementing the PWM Technique.
- Responsible for fine-tuning the circuit for the new desired output without changing any existing hardware.
- Performed all the necessary hardware testing.

Intern, PEPSICO India Holdings Pvt Ltd | Bharuch, India   May'15 – June'15

- Responsible for LEAN process initiatives for a low-cost automatic monitoring system for the production plant.
- Analyzed the power consumption statics of the production plant and prepared a cost estimation and payback time analysis for al process of automatic power factor correction unit which is currently saving 1.6 million worth INR per year for the plant.

LEADERSHIP EXPERIENCE

Aug'15 – May'17

Training & Placement Coordinator of Electrical and Electronics Engineering Department.