

Avishek Koirala

Eules, TX

-Email me on Indeed: <http://www.indeed.com/r/Avishek-Koirala/08411ccec55dd0d7>

Interested in power, electronics, and communication sectors of electrical engineering with some experiences in designing and debugging

Willing to relocate: Anywhere

Sponsorship required to work in the US

Work Experience

Associate RF Engineer

MobileNet Services - Salt Lake City, UT

April 2021 to Present

- Perform stationary and mobility drive test for 5G and 4G equipments for sites assigned.
- Collect data, prepare drive test summary and report issues for sites
- Collaborate with senior engineers and supervisors for troubleshooting

Student Supervisor

Chartwells - Saint Cloud, MN

2016 to December 2020

- Developed leadership and multi-tasking capability by training and supervising employees and volunteers, and handling multiple tasks assigned to supervisors.
- Liaised between management and workers and informed management about problems within the stand.

Senior Design Project

Department of Electrical and Computer Engineering, Saint Cloud State University - Saint Cloud, MN

August 2019 to May 2020

- Used analog temperature sensors, and thermal camera sensors for getting the thermal image
- Enhanced communication abilities by studying articles, books, and journals, writing weekly updates of the research project, and presentations
- Built motor driver circuit for driving motors for scanning purpose
- Built a thermal image scanner for failure analysis of electronic components

Student

St. Cloud State University - Saint Cloud, MN

January 2016 to May 2020

Analog Design Projects

- Built and analyzed an operational trans-conductance amplifier using BJTs, resistors, and capacitors
- Designed and analyzed NAND and NOR gate using CMOS chips
- Built a DC power supply according to specifications provided
- Calibrated and implemented an Evaluation board for reading eye movements

Power System Projects

- Analyzed three-phase power distribution with various loads for efficient power use

- Designed circuits with DC and AC motors with speed control

Wireless communication Projects

- Used Vector Network Analyzer for building impedance matching circuits for antennas
- Designed radio receiver for AM signals using envelope detector circuitry

Embedded Design Projects

- Demonstrated ability to design, simulate and implement digital circuits by accomplishing simple calculator projects using FPGA (Field Programmable Gate Array), ARM, and C programming language
- Designed and implemented a simple robot in a teamwork environment using VEX Robotics kits like sensors, micro-controller, and mechanical parts

Pre-college Tutor

St. Cloud State University - Saint Cloud, MN

2016 to 2018

- Asked students about specific topics or subject areas that were giving them trouble or that wanted further exploration
- Provided feedback to students using positive reinforcement techniques to encourage, motivate or build confidence in students.

Customer Service Representative

Husky Bookstore - Saint Cloud, MN

2016 to 2018

- Greeted customers and rendered assistance as necessary responding to inquiries of products and merchandise
- Operated cash register tabulating transactions, accepting payments, giving change, bagging purchases, and processing employee or faculty discounts as appropriate.

Education

Bachelor's degree in Electrical Engineering in Electrical Engineering

St. Cloud State University

December 2020