Krishbin Paudel

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EDUCATION

Tribhuvan University, Institute of Engineering, Pulchowk Campus Lalitpur,Nepal

Bachelors in **Electronics Communication and Information Engineering** *2019-2024*

- ***Letter Grading**: A+, **Percentage**: 81.92%*
- **Relevant Courses:** Computer Organization and Architecture, Digital Signal Processing, Microprocessor, Digital and Analog Communication,Wired and Wireless Communication, RF and Microwave, Artificial Intelligence, Computer Graphics

Trinity International College, Dillibazar, Kathmandu — *High School* (***GPA***: 3.75) *2017-2019*

Bagmati Boarding School, Sukedhara, Kathmandu —Secondary School (***GPA***: 3.8) *June 2017*

EXPERIENCE

Product Design and Manufacture | Hydrolab *January 2024– March 2024*

- Data acquisition system to get a parallel stream of data from 32 analog pressure sensors.
- Software to remotely acquire data, calibrate sensors, draw graphs and log sensor data.
- Hardware and Circuit Design to acquire data from sensors with low noise ADC signal path.

Instructor | Robocamp at Robotics Club Pulchowk Campus *July 2023*

- Empowering students by educating them on designing and building self-balancing robots.

Hardware Communication Lead | Robotics Club Pulchowk Campus *May 2022-August 2022*

- Integrating several wireless standards, Bluetooth, Zigbee and RF.
- Worked on low level communication driver development using C, C++, Rust and HAL

Program Coordinator | IEEE Student Branch Pulchowk Campus *December 2021- February 2022*

- Organized multiple programs to improve technical sight of people

PROJECTS

Autonomous Go Kart: A vehicle architecture fabricated from bottom up with all the required chassis and core electronics components which were designed to be autonomous around our college.(Article) *May 2023* - April 2024

API-CORE: A cpu microarchitecture based on RISC V RV32IM core designed and tested.(Github) *October 2022-January 2023*

Drishya: Smart goggles that detect its surrounding objects through a camera fed AI model, dictate documents through OCR to make the lives of visually impaired people easier. (Github) Presented at Microsoft Imagine Cup World Finals *November 2022* - December 2023

ABU ROBOCON 2023: Two robots per side that hit multiple targets from a distance, one is a shooter and the other refills the ball to the shooter. Robotics competition in Asia Pacific Region. *January 2022-August 2022*

JPEG Standard - Created a bitmap to JPEG converter for in game compression of frames.(Github) *February 2020-August 2020*

Yoggis- AI yoga trainer that provides real-time audio feedback to correct yoga poses *January 2023-June 2023*

HimAid- A low powered device for tracking live location of trekker during an avalanche *October 2022*

ACHIEVEMENTS

- **World Finalist at Microsoft Imagine Cup 2023**
- **3rd Place in ABU ROBOCON 2022**
- **Ncell Scholarship** for academic excellence
- **Winner** at Hult Prize IOE Pulchowk Campus
- **Winner** under Health category in LOCUS Hack-a-Week
- **Winner** at U-TECH **Hackathon** Alpha
- **1st Runner-up** at Ace-Ignite **Hackathon**
- **Winner at Revampathon** by **Leapfrog Technology**

TECHNICAL SKILLS

Hardware Skills

- FPGA
- Microcontrollers (ARM,RISC V),
- Wireless Protocols
- Robot Operating System(ROS2),
- Circuit Design
- CAD and 3d printing

Software Skills

- Verilog,
- Embedded Linux(Yocto, Petalinux),
- Python
- C++, C,
- Rust
- Dart
- SQL, NoSQL

CONFERENCES

- 5th International Conference on inventive Computation Technologies