Krishbin Paudel

[Portfolio Website (https://krishbin.com.np)](https://krishbin.com.np)

+977 9867977584

krishbinp@outlook.com | github |

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*

PROJECTS

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

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 *November 2022 - December 2023* AI model, dictate documents through OCR to make the lives of visually impaired people easier. (**Github**) Presented at Microsoft Imagine Cup World Finals

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

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),
- Docker
- Python
- C++, C,
- Rust
- Kubernetes
- SQL, NoSQL
- Shell Scripting

PREVIOUS EMPLOYMENT
N/A
PUBLICATIONS
N/A
RESEARCH FUNDING
N/A
AFFILIATIONS
N/A
NON-UNIVERSITY AND PROFESSIONAL ACTIVITIES
N/A