Saju Khakurel

♥ Kathmandu, Nepal ■ sajukhakurel9@gmail.com in Saju Khakurel sajukhakurel074 • Blogs

EDUCATION

Bachelor's Degree in Electronics and Communication Engineering 2017 - 2022 Tribhuvan University, Institute of Engineering, Pulchowk Campus, Aggregate: 69.68%

Intermediate of Science 2015 - 2017

Kathmandu Bernhardt College, Aggregate: 78.30% Kathmandu, Nepal

□ PROFESSIONAL EXPERIENCE

Embedded System Engineer (Vehicle Software)

Yatri Design Studio

 Development of full functioning Over The Air software project for bike and charging stations embedded system

Internal Server design for charging station

 One wire temperature sensor, handlebar push buttons coding, OBD Flash, inertial measurement sensor

2021/12 - 2022/04 Intern Yatri Design Studio

Research-oriented internship in OTA programming using C/C++ language

Hardware Designer and Embedded System Programmer

Robotics Club, Pulchowk Campus

 Design, fabrication, and testing of electronics hardware of robots for ABU ROBOCON 2019 and 2020

Hardware designing and Embedded programming

Social Media Manager and Content Creator

Pulchowk, Lalitpur, IFFF-Pulchwok Student branch

Newsletter Editor

IEEE-Pulchowk Student branch

Avionics system designer, Team Member

NEAR Aerospace

Design and manufacture data acquisition modules

• Research on control and proper landings

PROJECTS

Disinfectant Robot 2020/07 - 2021/06

Funded by Nepal Academy of Science and Technology (NAST)

- As a part of Covid-19 related biomedical research project by NAST
- Two Mobile Robots for spraying disinfectant in hospitals and quarantine areas
- In collaboration with the Incubation and Entrepreneurship center (IIEC), Pulchowk Campus

Automatic Modulation Classifier using DL

Final Year Project, Pulchowk Campus

 Mainly aiming to create a intelligent system to for the classification of incoming noisy signals using the trained DL models

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Lalitpur, Nepal

2021/04 - present

Kathmandu, Nepal

Kathmandu, Nepal

2018 - 2020

Pulchowk, Lalitpur,

Nepal

2021 - 2022

Nepal

2020/02 - 2020/12

2020/08 - 2020/12

Kupondole, Lalitpur,

2021/05 - 2022/04

Nepal

the mid evaluation **SLAM** 2020/11 - 2021/02 • Implementation of SLAM algorithm in turtlebot3 packages provided by ROS and aided by simulating as well as visualizing tools Hand gesture controlled car 2018/01 - 2018/02 Motion controlled vehicle from a distance using gesture controller **Rockbye Baby** 2020/01 - 2020/02 AI powered Smart Cot Winner of LOCUS Project Competition - SDG 3 category, LOCUS 2020 **₩** VOLUNTEER AND LEADERSHIP Instructor/Mentor 2019 - 2022Locus 2019/2020/2022 **Pulchowk Campus** • Basic and advanced hardware courses Breadboarding, Arduino, Soldering, Sensors, Motors, PCB design, and fabrication Instructor/Mentor 2020/01 - 2020/02 Godawari Residential School Godawari, Lalitpur • Mentored middle school students for their science exhibition regarding technical projects conducted by Robotics Club, Pulchowk Campus **Conduction Committee** 2020/02 - 2022/04 IEEE Tech Talk (Feb 19, 2020) Blood Donation Program (Feb 19, 2020) Webinar on Research Methodology and Research Paper Writing (10th July, 2021) ® SKILLS C/C++, Python, KICAD, PCB Designing, Robotics, ROS, Embedded Systems III COURSES 3rd Nepal Winter School in AI, 2021 2021/12 - 2021/12 Nepal Applied Mathematics and Informatics Institute for Research AWS Academy Cloud Foundations [5459] ☑ 2021/10 - 2021/12 2021/08 - 2021/10 RADAR 7 2021/05 - 2021/08 Pulchowk Campus Elective I Machine Learning by Stanford University ☑ 2021/06 - 2021/07

· Successfully generated data sets and classified them using the likelihood method for