

Saju Khakurel

 Kathmandu, Nepal  sajukhakurel9@gmail.com  Saju Khakurel  sajukhakurel074  Blogs

EDUCATION

2017 – 2022	Bachelor's Degree in Electronics and Communication Engineering <i>Tribhuvan University, Institute of Engineering, Pulchowk Campus,</i> <i>Aggregate: 69.68%</i>	Lalitpur, Nepal
2015 – 2017	Intermediate of Science <i>Kathmandu Bernhardt College, Aggregate: 78.30%</i>	Kathmandu, Nepal

PROFESSIONAL EXPERIENCE

2021/04 – present	Embedded System Engineer (Vehicle Software) <i>Yatri Design Studio</i> <ul style="list-style-type: none">- 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	Kathmandu, Nepal
2021/12 – 2022/04	Intern <i>Yatri Design Studio</i> <ul style="list-style-type: none">- Research-oriented internship in OTA programming using C/C++ language	Kathmandu, Nepal
2018/11 – 2020/02	Hardware Designer and Embedded System Programmer <i>Robotics Club, Pulchowk Campus</i> <ul style="list-style-type: none">- Design, fabrication, and testing of electronics hardware of robots for ABU ROBOCON 2019 and 2020- Hardware designing and Embedded programming	Pulchowk, Lalitpur, Nepal
2021/01 – present	Social Media Manager and Content Creator <i>IEEE-Pulchowk Student branch</i>	Pulchowk, Lalitpur, Nepal
2020/02 – 2020/12	Newsletter Editor <i>IEEE-Pulchowk Student branch</i>	
2020/11 – present	Avionics system designer, Team Member <i>NEAR Aerospace</i> <ul style="list-style-type: none">- Design and manufacture data acquisition modules- Research on control and proper landings	Kupondole, Lalitpur, Nepal

PROJECTS

2020/07 – 2021/06	Disinfectant Robot <i>Funded by Nepal Academy of Science and Technology (NAST)</i> <ul style="list-style-type: none">- 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
-------------------	---

2020/05 – present	Automatic Modulation Classifier using DL <i>Final Year Project, Pulchowk Campus</i> <ul style="list-style-type: none"> - Mainly aiming to create a intelligent system to for the classification of incoming noisy signals using the trained DL models - Successfully generated data sets and classified them using the likelihood method for the mid evaluation
2020/11 – 2021/02	SLAM <ul style="list-style-type: none"> - Implementation of SLAM algorithm in turtlebot3 packages provided by ROS and aided by simulating as well as visualizing tools
2018/01 – 2018/02	Hand gesture controlled car <ul style="list-style-type: none"> - Motion controlled vehicle from a distance using gesture controller




VOLUNTEER AND LEADERSHIP

2020/02 – present	Conduction Committee <ul style="list-style-type: none"> - IEEE Tech Talk (Feb 19, 2020) - Blood Donation Program (Feb 19, 2020) - Webinar on Research Methodology and Research Paper Writing (10th July, 2021) 	
2019 – 2022	Instructor/Mentor <i>Locus 2019/2020/2022</i> <ul style="list-style-type: none"> - Basic and advanced hardware courses - Breadboarding, Arduino, Soldering, Sensors, Motors, PCB design, and fabrication 	Pulchowk Campus
2020/01 – 2020/02	Instructor/Mentor <i>Godawari Residential School</i> <ul style="list-style-type: none"> - Mentored middle school students for their science exhibition regarding technical projects conducted by Robotics Club, Pulchowk Campus 	Godawari, Lalitpur

SKILLS

C/C++	Python	KICAD	PCB Designing	Robotics	ROS	Embedded Systems
-------	--------	-------	---------------	----------	-----	------------------

COURSES

2021/12 – 2021/12	3rd Nepal Winter School in AI, 2021 <i>NepAI Applied Mathematics and Informatics Institute for Research</i>	Bhaktapur, Nepal
2021/10 – present	AWS Academy Cloud Foundations [5459] 	
2021/08 – present	Deep Learning Specialization 	
2021/05 – 2021/08	RADAR  <i>Pulchowk Campus</i> <ul style="list-style-type: none"> - Elective I 	
2021/06 – 2021/07	Machine Learning by Stanford University 