Saju Khakurel

📍 Kathmandu, Nepal ✉ sajukhakurel9@gmail.com 📞 9840556694 in Saju Khakurel

 sajukhakurel074

🎓 EDUCATION

2017/11 – 2021/04	**Bachelor's Degree in Electronics and Communication Engineering** *Tribhuvan University, Institute of Engineering, Pulchowk Campus*	Pulchowk, Lalitpur, Nepal
2015/06 – 2017/04	**Intermediate of Science** *Kathmandu Bernhardt College*	Balkhu, Kathmandu

## 💼 PROFESSIONAL EXPERIENCE

2021/04 – present	**Embedded System Engineer (Vehicle Software)** *Yatri Design Studio* - Development of full functioning Over The Air software project	Kathmandu, Nepal
2021/12 – 2021/03	**Intern** *Yatri Design Studio* - Research oriented intern in OTA programming using C/C++ language	Kathmandu, Nepal
2021/01 – 2022/01	**Social Media Manager and Content Creator** *IEEE-Pulchwok Student branch*	Pulchowk, Lalitpur, Nepal
2020/11 – 2021/11	**Avionics system designer, Team Member** *NEAR Aerospace* - Design and manufacture data acquisition modules - Research on control and proper landings	Kupondole, Lalitpur, Nepal
2020/02 – 2020/12	**Newsletter Editor** *IEEE-Pulchowk Student branch*	Pulchowk, Lalitpur, Nepal
2018/11 – 2020/02	**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	Pulchowk, Lalitpur, Nepal

📁 PROJECTS

2020/05 – present	**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 - Successfully generated data sets and classified them using the likelihood method for the mid evaluation	
2020/07 – 2021/06	**Disinfectant Robot** ⬈ *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	

2020/11 – 2021/02	**SLAM**	
	- Implementation of SLAM algorithm in turtlebot3 packages provided by ROS and aided by simulating as well as visualizing tools	
2020/01 – 2020/02	**Rockbye Baby**	
	AI powered Smart Cot	
	- Winner of LOCUS Project Competition - SDG 3 category, LOCUS 2020	

📚 COURSES

2021/12 – 2021/12	**3rd Nepal Winter School in AI, 2021** ⧉	Bhaktapur, Nepal
	NepAl Applied Mathematics and Informatics Institute for Research	
2020/09 – 2021/12	**Breaking Out Of Cocoon** ⧉	
	Girls in Tech, SHEQUAL Foundation and United States Embassy	
2021/10 – 2021/12	**AWS Academy Cloud Foundations [5459]** ⧉	
2021/08 – present	**Deep Learning Specialization** ⧉	
2021/06 – 2021/07	**Machine Learning by Stanford University** ⧉	

🧠 SKILLS

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

🧩 VOLUNTEER AND LEADERSHIP

2020/02 – 2022/01	**Conduction Committee**	
	- IEEE Tech Talk (Feb 19, 2020)	
	- Blood Donation Program (Feb 19, 2020)	
	- Webinar on Research Methodology and Research Paper Writing (10th July 2021)	
	- Weekly Tech Talk sessions	
2019 – 2022	**Instructor/Mentor**	Pulchowk Campus
	Locus 2019/2020/2022	
	- Basic and advanced hardware courses	
	- Breadboarding, Arduino, Soldering, Sensors, Motors, PCB design, and fabrication	
2020/01 – 2020/02	**Instructor/Mentor**	Godawari, Lalitpur
	Godawari Residential School	
	- Mentored middle school students for their science exhibition regarding technical projects conducted by Robotics Club, Pulchowk Campus	

🎻 INTERESTS

Artificial Intelligence	Sports (Basketball, Badminton)	Free writing	Frontend Design