

PATEL JAY

Contact

1333 South Park
Street,
Apt 1019, Halifax,
NS-B3J 2K9

Website

patel999jay.github.io

Contact No

+1 902-818-8034

Email:

jay.patel.in@ieee.org
patel.jay@dal.ca

Languages

English,Hindi,
Gujarati(M.T)

Programming Languages

♥Python, C, C++,
Embedded C,
HTML, WordPress, XML,
CSS,
L^AT_EX

Engineering Tools

♥Matlab, CST, NS-3,
NS-2, HFSS, Bellhop,
ROS, Antenna Magus,
FEKO, SAP

DOCTORAL

♥Underwater Acoustic
communication,
RF/Microwave system,
CMOS-MEMS, Analog
MOS Design

GRADUATE

♥RF & Microwave,
Antenna Engineering,
Digital Logic Design,
Micro-controller,
Micro-processor,
Statistical signal
Analysis, Advance Digital
Communication.

Experience

2018-Now	Dalhousie University <i>student IT Technician</i>	MedIT, Faculty of Medicine
2018-Now	Dalhousie University <i>Teaching Assistant</i>	Faculty of Engineering
	<ul style="list-style-type: none"> • ECED 6575 (Underwater Acoustic Engineering) • ECED 4502 (Signal Processing) • MECH 3900 (systems-I) • ECED 3500 (Signal Analysis) • ECED 3511 (Communication systems) 	
2016-2017	Parul Institute of Technology <i>Assistant Professor in Dept. of Electronics and Communication Engineering</i>	Faculty of Engineering
2015-2016	Bombardier Transportation India Pvt. Ltd <i>Trainee Methods Engineer</i>	Savli, India

Education

2018–2021	PhD in Electrical & Computer Engineering(3.75/4 GPA)	Dalhousie University
2014–2016	M.Engg in Electronics & Comm. Engineering(8.99/10 CPI)	Gujarat Technological University
2014–2010	B.Engg in Electronics & Comm. Engineering(8.02/10 CPI)	Gujarat Technological University

License

2018	Engineer-in-Training [Registration ID:29222]	Engineers Nova Scotia
------	---	-----------------------

Patent

Mar-20	Low cost design of UHF Antenna for roof mounted vehicular & Heavy-duty applications Government of India	
	<ul style="list-style-type: none"> • Official Journal of the Patent Office (Date:March 20, 2020) 	

Projects

2018-2022	CDMA-based multi-domain communication network for marine robots Thales R&D & Dalhousie University
2018-2019	DND IDEaS research project Cellula Robotics and Dalhousie University
2015-2016	QNGR (Queensland New Generation Rolling Stock) Bombardier Transportation India
2015-2016	DMRC (Delhi Metro Rail Corporation Ltd) Bombardier Transportation India
2015-2016	Antenna development for Metro Trains Bombardier Transportation and GTU
2013-2014	Automatic inspection system using Image Processing VTalent Global Pvt Ltd and GTU

Publications

Sep-20	Underwater channel characterization for shallow water multi-domain communications IEEE Canadian Conference on Electrical and Computer Engineering-CCECE'20
Aug-20	Live RF Image Transmission Using OFDM with RPi and PlutoSDR IEEE Canadian Conference on Electrical and Computer Engineering-CCECE'20
Oct-19	CDMA-based multi-domain communication network for marine robots 14th ACM International Conference on Underwater Networks Systems-WUWNET'19
Jun-19	Collaboration of multi-domain marine robots towards above and below-water characterization of floating targets IEEE International Symposium on Robotic and Sensors Environments ROSE-2019 <ul style="list-style-type: none">• Best Student Paper Award at ROSE-2019.
Jul-16	Book on Roof Mounted UHF Antenna for Auto motives LAP LAMBERT Academic Publishing
Apr-16	Development of Low Profile antenna for Point-to-Train Communication 7th National Level Conference on Emerging Vistas of Technology (NCEVT-2016),Parul University
Mar-16	Design and Simulation of Roof mounted low profile UHF antenna for Auto motives IEEE International Conference on Wireless Communications, Signal Processing and Networking
Jan-16	Review Paper on Design and Simulation of UHF antenna for Roof mounted vehicular and Heavy Duty Applications Indian Journal of Technical Education

References

References can be provided upon request.

Achievements

2018-2021	NSERG & Thales R&D Grant Receiptant Intelligent System Lab, Dalhousie University <ul style="list-style-type: none">• Received funding for Doctoral thesis.
2018-2019	Director of Engineering, Architecture and Planning DAGS <ul style="list-style-type: none">• Elected as Director Engineering, Architecture and Planning of Dalhousie Association of Graduate Students and International student Life Committee Member-Dalhousie University for term 2018-2019.
2018-2019	IEEE Student branch, PES & HKN chapter Chair IEEE Dalhousie University Student Branch <ul style="list-style-type: none">• Received funding for the project under PES Member-Driven Initiative Program from IEEE.• IEEE HKN Member and Chair of IEEE Dalhousie University SB.• Active Volunteer in IEEE Atlantic Canada Section.
2014-2017	IEEE Student branch and PES chapter Chair IEEE PU Student Branch <ul style="list-style-type: none">• Member of Technical Advisory Committee in IEEE 2018 International Conference On Power,Energy,Control and Transmission Systems.• IEEE PU PES Student branch stood at 28 Highest Performing SB PES chapter all over the world and received token of appreciation from IEEE PES.• Received funding from IEEE for the project under PES Member-Driven Initiative Program.• Volunteered for 4 years in IEEE Gujarat PES Student Section.