PATELJAY

Contact 1333 South Park	Experience		
Street, Apt 1019, Halifax,	2018-Now	Dalhousie University student IT Technician	MedIT, Faculty of Medicine
NS-B3J 2K9 Website	2018-Now	Dalhousie University <i>Teaching Assistant</i>	Faculty of Engineering
patel999jay.github.io Contact No		 ECED 6575 (Underwater Acoustic Engineering) ECED 4502 (Signal Processing) MECH 3900 (systems-I) ECED 3500 (Signal Analysis) 	
+1 902-818-8034	2016-2017	 ECED 3511 (Communication systems) Parul Institute of Technology 	Faculty of Engineering
Email: jay.patel.in@ieee.org patel.jay@dal.ca	2010 2011	Assistant Professor in Dept. of Electronics and Communication	
	2015-2016	Bombardier Transportation India Pvt. Ltd <i>Methods Engineer</i>	Savli, Vadodara, India
Languages English,Hindi, Gujarati(M.T)	Education		
Programming Languages ♥Python, C, C++, Embedded C, HTML, WordPress, XML, CSS,	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
₽T _E X	License		
Engineering Tools ♥Matlab, CST, NS-3, NS-2, HFSS, Bellhop, ROS, Antenna Magus, FEKO, SAP	2018	Engineer-in-Training	Engineers Nova Scotia
	Patent		
	Mar-20	Low cost design of UHF Antenna for roof mounted vehicular & Heavy-duty applications Government of India	
DOCTORAL ♥Underwater Acoustic communication,		Official Journal of the Patent Office (Date:March 20,	2020)
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.	Projects		
	2018-2022	CDMA-based multi-domain communication network for marine ro Thales R&D & Dalhousie University	bots
	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 International Conference on Underwater Acoustics-ICUA'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 EEE International Symposium on Robotic and Sensors Environments ROSE-19
	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 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 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 Receipant** Intelligent System Lab, Dalhousie University

Received funding for Doctaral thesis.

2018-2019 **Director of Engineering, Architecture and Planning**

ure and Planning of Dalhousia As-

 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

- 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

- 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.