

## Communication and Antenna Design Projects – MATLAB & HFSS

Project Code	Project Titles	Technology
PANCOM001	System of Spread Spectrum GFDM for Integrated Satellite-Terrestrial Communication Systems	GFDM
PANCOM002	Identifying the channel characteristics for communications vehicles to infrastructure	Vehicle Communication
PANCOM003	Communications by coherent detection in a chaotic optical environment	Optical Communication
PANCOM004	GBSM for vehicular visibility light communications with non-stationary channels	Light Communication
PANCOM005	Research on Information Transmission Mechanism of Visible Optical Communication System	Optical Communication
PANCOM006	Optimizing OFDM Shared Frequency Resources for Complex Electromagnetic Environments	Resource Allocation
PANCOM007	Communications over optical fiber using a time domain synchronized OFDM system	Fiber Optics
PANCOM008	MIMO-OFDM system with compressed audio signal recovery over sparse channels	MIMO – OFDM
PANCOM009	Communication system for optical cameras using rolling MIMO-OFDM	MIMO - OFDM
PANCOM010	An EMD based weak signal detection method based on Duffer oscillators	EMD Based
PANCOM011	A Method to Adjust Optical Communication Systems for Satellites communications	Satellites Communications
PANCOM012	Analysis of spectrum handoff delays using residual time distributions in cognitive radio networks	CRN
PANCOM013	A new approach to spectrum sensing for optimizing throughput in cognitive radio networks	CRN
PANCOM014	Signal Recovery in the Industrial Environment for an OFDM System	OFDM
PANCOM015	Reconfigurable Phased Array 5G Smartphone Antenna for Cognitive Cellular Networks	Antenna Design
PANCOM016	Reconfigurable Metal-Rimmed Antenna for 4G/5G Smartphones	Antenna Design
PANCOM017	Broadband Dual Polarization Antenna Array for 5G Millimeter Wave Applications	Antenna Design
PANCOM018	Wide-band slot Antenna on metal bezel for covering 28/39GHz in 5G Communication System	Antenna Design



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PANCOM019	Dual-Band MIMO Antenna System for 5G Mobile Terminals	Antenna Design
PANCOM020	Compact Slot Antenna Array for 5G Communications	Antenna Design
PANCOM021	CPW Fed Wide to Dual Band Frequency Reconfigurable Antenna for 5G Application	Antenna Design
PANCOM022	Triple Band MIMO Antenna System for 5G Mobile Terminals	Antenna Design
PANCOM023	Design of Reconfigurable Planar Inverted F Antenna for 5G Implementation	Antenna Design
PANCOM024	Millimeter Wave Doughnut Slot MIMO Antenna for 5G Applications	Antenna Design
PANCOM025	Radio propagation and wireless coverage of LSAA based 5G mm-wave mobile communication system	5G Network
PANCOM026	A hybrid solution of SDN Architecture for 5G mobile communication to Improve data rate transmission	5G Network
PANCOM027	performance Evaluation for 5G NR based Uplink mm-wave MIMO systems under urban micro cell	5G Network
PANCOM028	Frequency offset Estimation for 5G based on Doppler and kalman filter in satellite communications system	5G Network
PANCOM029	The spread spectrum GFDM schemes for integrated satellite-Terrestrial communication system	5G Network
PANCOM030	PAPR Reduction in OFDM using Hybrid compounding for 5G wireless communication	5G Network
PANCOM031	Energy Efficiency Evaluation of linear transmitter for New radio wireless waveform	5G Network
PANCOM032	Analysis of GFDM as a Robust 5G communication Technique in Noisy Environment	5G Network
PANCOM033	Energy Efficiency Tradeoff in cognitive satellite vehicular network towards beyond 5G	5G Network
PANCOM034	Channel Allocation scheme based on greedy algorithm in cognitive vehicular network	Spectrum Allocation
PANCOM034	Joint Sparse Channel Estimation in Downlink NOMA System	Channel Estimation
PANCOM035	Pilot Power Allocation for Enhancing Channel Estimation Quality in Multi-cell Multi-user Massive MIMO Systems	Channel Estimation



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PANCOM036	Compressive Sensing-Based Channel Estimation for FBMC-OQAM System Under Doubly Selective Channels	Channel Estimation
PANCOM037	Channel Estimation for High Speed Wireless Systems using Gaussian Particle Filter and Auxiliary Particle Filter	Channel Estimation
PANCOM038	Location based joint spectrum sensing and radio resources allocation in cognitive radio enabled LTE system	Spectrum Allocation
PANCOM039	Dynamic spectrum allocation for Heterogeneous cognitive radio networks with multiple channels	Spectrum Allocation
PANCOM040	High speed railway communication in 5G	Channel Estimation

