



BONAM VENKATA CHALAMAYYA ENGINEERING COLLEGE

(AUTONOMOUS)

ODALAREVU - 533 210, Allavaram Mandal, Dr. B.R.Ambedkar Konaseema District, Andhra Pradesh, INDIA

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Patents, Innovations, and Start-ups

Title of Invention	Name/s of applicants	Category	Application Number	Date of filing	Status	Department
Reversible wind turbine for coastal energy harvesting	Dr. Ravi Kumar	Patent	202441087540A	13/11/2024	Published	Civil Department
Cold climate concrete: enhancements for freeze-thaw durability	Dr. K. Sundara Kumar	Patent	202441052923A	11/07/2024	Published	Civil Department

Title of Invention	Name/s of applicants	Category	Application Number	Date of filing	Status	Department
Four hook in single screw	Dr. Sujeet Kumar	Design Patent	425959-001	06-08-2024	Granted	MECH
Reversible wind turbine for coastal energy harvesting	Dr. Sujeet Kumar	Utility Patent	202441087540	22-11-2024	Published	MECH
Solar fish dryer with dual heat absorber	Dr. Sujeet Kumar	Design Patent	443182-001		Under Process (FER Generated).	MECH
Job Separator Machine	Dr. Sujeet Kumar	Design Patent	452994-001		Under Process (FER Generated).	MECH
Multi directional door hinge	Dr. M Naveen Srinivas	Design Patent	453000-001	26/03/2025	Granted	MECH



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Title of Invention	Name/s of applicants	Category	Application Number	Date of filing	Status	Department
Machine Learning Based Colour Guided Material Handling Robotic Device	Dr. Thoram Saran Kumar	Design Patent	456324-001	23/04/2025	Published	ECE
Very Large Scale Integrated Vlsi Circuit Design For Technology Migration	Dr. Thoram Saran Kumar	Patent	202441101742 A	2025/3/1	Published	ECE
A Novel System And Method For Integration Of Internet Of Things (Iot) With 5g Networks	Dr. Thoram Saran Kumar	Patent	202511002687 A	2025/2/28	Published	ECE
IoT Based Smart Metering For Home Automation	Dr. Thoram Saran Kumar	Patent	202321084011 A	2024/5/1	Published	ECE
Wind Mill	Mr. Thoram Saran Kumar	Design Patent	404439-001	2024/1/13	Published	ECE
Machine Learning Approach Based Monitoring Insect Pests In Plants Using Camera Equipped Device	Mr. Thoram Saran Kumar	Patent	202311006403 A	2023/10/2	Published	ECE
Banana Ripe Stage Classification Using Cnn -Open Cv -Deep Learning -Python	Mr. Thoram Saran Kumar	Patent	202341039874 A	2023/6/30	Published	ECE
Recognition Of Ocular Disease From Fungus Images Using Machine Learning Approach	Mr. Thoram Saran Kumar	Patent	202341027529 A	2023/5/5	Published	ECE
Detection And Autism Spectrum Disorder In Eeg Signal Using Artificial	Mr. Thoram Saran Kumar	Patent	202341011889 A	2023/3/17	Published	ECE



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Intelligence						
Cost Aware Optimization Based Scheduling Technique For Iot Tasks	Mr.Thoram Saran Kumar	Patent	202341005247 A	2023/3/2	Published	ECE
An Improvised Design And Development Of Solar Charging Station For Ev	Mr.Thoram Saran Kumar	Patent	202311001494 A	2023/1/13	Published	ECE
Analysis And Detection Of Depression Severity Scores Based On Eeg Signal Using Machine Learning Approach	Mr.Thoram Saran Kumar	Patent	202341001221 A	2023/1/13	Published	ECE
Adaptive And Fault-Tolerant Data Processing In Healthcare Internet Of Things	Ch Sridevi	Patent	202241076238 A	13/01/2023	Published	ECE
A Novel Antenna System For Iot Application And Method Thereof	Ch Sridevi	Patent	202341036939 A	16/06/2023	Published	ECE
Data Privacy For Patient's Healthcare Information Using Iot And Blockchain Integration	V. Anuragh	Patent	202341005621A	10/02/2023	Published	ECE
Enhancements To A Plant Health Monitoring System Using Internet Of Things(Iot)	V. Anuragh	Patent	202341007250A	17/02/2023	Published	ECE
Iot Based Electric Vehicle For Smart Ev Charging Station	V. Anuragh	Patent	202311011077A	17/03/2023	Published	ECE
Detection and Autism Spectrum	I R S Nageswara Rao	Patent	202341011889 A	17/03/2023	Published	ECE



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Disorder in EEG Signal using Artificial Intelligence						
Machine Learning Approach based monitoring insect pests in plants using camera equipped device	I R S Nageswara Rao	Patent	202311006403A	10/02/2023	Published	ECE
An Improvised design and development of solar charging station for EV	I R S Nageswara Rao	Patent	202311001494A	13/01/2023	Published	ECE
Machine Learning Based Colour Guided Material Handling Robotic Device	I R S Nageswara Rao	Design Patent	456324-001	23/04/2025	Published	ECE
Wind Mill	I R S Nageswara Rao	Design Patent	404439-001	2024/1/13	Published	ECE
design and development of a high-performance trapezoidal microstrip patch antenna for dual-band Wi-Fi wireless communication applications	K.swathi	patent	202541082106 A	26/09/2025	Published	ECE
design and development of a high-performance trapezoidal microstrip patch antenna for dual-band Wi-Fi wireless communication applications	G.sukanya	patent	202541082106 A	26/09/2025	Published	ECE
design and development of a high-performance trapezoidal microstrip patch antenna for dual-	S N V D Lakshmi priyanka	patent	202541082106 A	26/09/2025	Published	ECE



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band Wi-Fi wireless communication applications						
Efficient wireless power transfer system for iot devices using resonant coupling and adaptive energy optimization	I.Ramasatyanageswararao	patent	202511012446 A	28/02/2025	Published	ECE
advanced driver assistant system (ADAS) for vehicle safety and security:an IOT approach	CH.sridevi	patent	202541007281 A	7/2/2025	Published	ECE
Head movement and voice enabled robotic wheelchair for physically challenged	k.swathi	patent	202541007290 A	7/2/2025	Published	ECE
Face reconigation and voice assist-based vehicle ignition and controlling system	S.Nagabhargavi	patent	202541007273 A	7/2/2025	Published	ECE
advanced secured ATM system with fingerprint,keypad and voice enable three - layer security protection F	K.sivaranjini	patent	20244180865 A	1/11/2024	Published	ECE
Accident prevention at blind curves	Y.SatyaVinod	patent	202441069350 A	20/09/2024	Published	ECE
simplified channel estimation over fast -fading sfbc-ofdm systems	S.leelaveni	patent	202441066803 A	13/09/2024	Published	ECE
Simplified channel estimation over fast-fading SFBC-OFDM	S N V D Lakshmi priyanka	patent	202441066803 A	13/09/2024	Published	ECE



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systems						
Simplified channel estimation over fast-fading SFBC-OFDM systems	P.Rajesh	patent	202441066803 A	13/09/2024	Published	ECE
Simplified channel estimation over fast-fading SFBC-OFDM systems	Ch. Surya ramagowri	patent	202441066803 A	13/09/2024	Published	ECE
Diabetic retinopathy detection using color image processing	V.Sandhya	patent	202441065271 A	6/9/2024	Published	ECE
artificial intelligence based CCTV camera for surveillance	Dr.K.Rajasekhar	Design patent	429229-001	4/9/2024	Published	ECE
Enhanced real time fraud detection in financial transactions using deep learning	Dr.K.Rajasekhar	patent	202441065146 A	6/9/2024	Published	ECE
IOT based intelligent energy management for hybrid electric vehicles using machine learning algorithms	Dr.K.Rajasekhar	patent	202441058815 A	9/8/2024	Published	ECE
IOT enabled solar powered agricultural robot	Dr.K.Rajasekhar	design	428209-001	26/08/2024	Published	ECE
Realization of residue architecture for cryptography applications	K. Lakshmi priyanka	patent	202441060589 A	23/08/2024	Published	ECE
Realization of residue architecture for cryptography applications	G.sukanya	patent	202441060589 A	23/08/2024	Published	ECE
Realization of	G.sudheerbabu	patent	202441060589 A	23/08/2024	Published	ECE



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residue architecture for cryptography applications				4		
Detection and Autism Spectrum Disorder in EEG Signal using Artificial Intelligence	P. Harika	patent	202341011889 A	17/03/2023	Published	ECE
Detection and Autism Spectrum Disorder in EEG Signal using Artificial Intelligence	I R S NageswaraRao	patent	202341011889 A	17/03/2023	Published	ECE
IOT Based Monitoring System for Physical Rehabilitation of stroke patient	Y. Satyavino	patent	202341011074A		Published	ECE
An Advanced Tumour Recognition Based on IOT and Artificial Intelligence Image Processing and Working Method Thereof	Dr. K B S D Sarma	patent	202341005613 A	24/02/2023	Published	ECE
An Advanced Tumour Recognition Based on IOT and Artificial Intelligence Image Processing and Working Method Thereof	Dr. K Rajasekhar	patent	202341005613 A	24/02/2023	Published	ECE
An Advanced Tumour Recognition Based on IOT and Artificial Intelligence Image Processing and Working Method Thereof	T S S Phani	patent	202341005613 A	24/02/2023	Published	ECE
An Advanced	Dr. Akula Pravin	patent	202341005613 A	24/02/2023	Published	ECE



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Tumour Recognition Based on IOT and Artificial Intelligence Image Processing and Working Method Thereof				3		
A System For Recognizing And Storing A Business Card By Using A Business Card Management Server And Method Thereof	Y. SatyaVinod	patent	202341004175 A	17/02/2023	Published	ECE
A System For Recognizing And Storing A Business Card By Using A Business Card Management Server And Method Thereof	V. Anuragh	patent	202341004175 A	17/02/2023	Published	ECE
A System For Recognizing And Storing A Business Card By Using A Business Card Management Server And Method Thereof	P. Harika	patent	202341004175 A	17/02/2023	Published	ECE
Enhancements To A Plant Health Monitoring System Using Internet Of Things(Iot)	V. Anuragh	202341007250A	17/02/2023	Published	ECE	
IOT Based Remote Smart Healthcare System for Telemedicine	Y. Satyavinod	patent	202321005244A	10/2/2023	Published	ECE
Machine Learning Approach based monitoring insect	I R S NageswaraRao	patent	202311006403A	10/2/2023	Published	ECE



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pests in plants using camera equipped device						
An Improvised design and development of solar charging station for EV	I RS NageswaraRao	patent	202311001494A	13/01/2023	Published	ECE
Adaptive and fault-tolerant data processing in healthcare Internet of Things	Dr. K B S D Sarma	patent	202241076238 A	13/01/2023	Published	ECE
Adaptive and fault-tolerant data processing in healthcare Internet of Things	Ch. Sridevi	patent	202241076238 A	13/01/2023	Published	ECE
IOT based industrial safety system	Dr.N S N LakshmiRaju	patent	202441061770 A	23/08/2024	Published	ECE
AI Based device for crop health monitoring	Dr.K.Rajasekhar	design	424996-001	29/07/2024	Published	ECE
design and high performance broadbandmicros trip patch antennas for 5G communications	Dr.K.Rajasekhar	patent	202441060422 A	16/08/2024	Published	ECE
Self learningvlsi circuit system for adaptive control in iot sensors	Dr. K B S D Sarma	patent	202441090695A	29/11/24	Published	ECE
An advancedtumour recognition based on iot and artificial intelligence image processing and working method thereof	Dr. K B S D Sarma	patent	202341005613A	24/02/23	Published	ECE
Adaptive and fault tolerant data processing in health care internet of things	Dr. K B S D Sarma	patent	202241076238A	13/01/2023	Published	ECE



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