

**EE 4097 / 4197 - EE 4098 /
4198**

Fall 2022 -2023

Project Name	Group Members	Advisor	Lect. Code EE4197 or EE4198
Modelling of Propulsion Unit Test Platform for Cubesats	Yunus Yamak Hüseyin Mentеше	Asst. Prof. Dr. Salih Bayar	EE4198/EE4098
Flexible Microstrip Patch Antenna for Mobile Operations	Mehmet Selim Mamati	Asst. Prof. Dr. Mohammad Alsunaidi	EE4198
Carbon Emission in the Energy Sector	Emine Selin Başbağ -	Assoc. Prof. Dr. Fulya Çallıalp	EE4198
Improved Traffic Lights Controlling via YOLO based Object Detection and Simulink	Yunus İnci	Asst. Prof. Dr. Ahmet Unutulmaz	EE4198
Disease Prediction Using Machine Learning Algorithms and Chatbot Implementation With Natural Language Processing	Atilla Gündoğan - İsmail Doğukan Özcan -	Asst. Prof. Dr. Salih Bayar	EE4198
Dynamic Price-based Electric Bus Public Transport Fleet Charging Management	Halil Selim Cansizer -	Asst. Prof. Dr. Mustafa Alparslan Zehir	EE4198
Controlling expiry dates of products using Artificial Intelligence	Veli Can KAHRAMAN-	Asst. Prof. Dr. Ahmet Unutulmaz	EE4198
High Sampling Rate ADC Board Design and FFT Applications	Abdullah Çağrı Bingöl -	Asst. Prof. Dr. Alper ŞİŞMAN	EE4198
Sensorless Solar Tracking Panel	Enes Şengül Ensar Yılmaz	Assoc. Prof. Dr. Fulya Çallıalp	EE4198
Dataset of charging characteristics of electric vehicles	Enes Furkan Cüce	Asst. Prof. Dr. Ahmet Unutulmaz	EE4198
Smart Pole Design with Drone Tracking Optimization and Charging Unit	Berat Fazıl Şahin	Asst. Prof. Dr. Ahmet Unutulmaz	EE4198
Real Time Flight Control Software and Flight Control Board Design for Vertical Landing Rocket Systems	İbrahim Cahit Özdemir Abdulmecid Pamuk	Assoc. Prof. Dr. ONUR CİHAN	EE4197

Smart trap for insect counting	Tahir Temizkan Mehmet Temmuz Boyraz Şerife Küçükköşker	Prof. Dr. Cem Ünsalan	EE4197
Analysis of EV Fast Charging Stations	Onur Atasever Enes Erođlu Ahmet Tahir Manzak	Asst. Prof. Dr. Ahmet Unutulmaz	EE4197
Extracting a Three-Dimensional Brain Model from Two-Dimensional Brain CT Images with Deep Learning	Ravzanur TOK Ezgi SÜNE	Prof. Dr. Gökhan Bora ESMER	EE4197
Energy Market Data Analysis of Turkey	Muhammed Atabay	Asst. Prof. Dr. Mustafa Alparslan Zehir	EE4197
Flight Controller Design for Quadcopters	Ali Eren TÜRK Osman Büyükkacı	Asst. Prof. Dr. Alper ŞİŞMAN	EE4197
IOCard design with analog and digital inputs to receive data from devices	Esra Özkan - Türker Erdem - Berkay Gülhan -	Assoc. Prof. Dr. Fulya Çallıalp	EE4197
Energy Management System For MicroGrid	Ali Temir - Yusuf Bedir- Sena Gül Tunçbilek	Lect. ŞAKİR BİNGÖL	EE4197
GENERATE ELECTRICITY FROM RAINDROPS WITH PIEZOELECTRIC	Erkan Erten-	Assoc. Prof. Dr. Fulya Çallıalp	EE4197
Optimization Energy Usage in Smart Home	Mehmet Akif Tezcan -- Enes Sezer	Lect ŞAKİR BİNGÖL	EE4197
Power Quality and Electrification in Rail Systems	Muhammed Emin İlhan --- Umuthan Kaptan	Prof. Dr. Osman Kılıç	EE4197
Bird Audio Detection with Deep Learning	Arman İbiş Fahri Kağın Deniz	Assoc. Prof. Dr. Engin Maşazade	EE4197
Estimation of emotional status from visual and audio signals	Gökay Bayram Ömer Ulu	Prof. Dr. Gökhan Bora Esmer	EE4197
Implementations of Quantum Algorithms	Selahattin Ege Karagözlü - Uygar Gündüz - Mehmet Karaca -	Asst. Prof. Dr. Ahmet Unutulmaz	EE4197
Denoising digital holography images with neural network architecture	Ömer Buminhan Çay	Prof. Dr. Gökhan Bora Esmer	EE4197

Electricity generation and harvesting using piezoelectricity via livestock	Murat Çevik Ferhat Yüksel Yunus Emre Polat	Assoc. Prof. Dr. Fulya Çallıalp	EE4197
Recognizing of The Cursive Turkish Handwriting with Machine Learning and Deep Learning	Fatih Koyuncu - Mahsum Aslan -	Assoc. Prof. ONUR CİHAN	EE4197
Community Micro-Grid Power and Energy Management Solutions Development	İbrahim Halil ŞAHİN-	Asst. Prof. Dr. Mustafa Alparıslan Zehir	EE4197
Adaptive Electric Fence System Design with object tracking using a camera	Abdussamed Şahin - İbrahim Binici - Nurullah Said Tüğmen - Mustafa Alperen Bebek -	Assoc. Prof. Dr. Mustafa ONAT	EE4197
Simulating PVs and Storage Devices on Power Distribution Systems	Ahmet Fırat Küçük - Salih Kalkır -	Assoc. Prof. Dr. Oğuzhan Ceylan	EE4197
Modelling, Potential Impact Analysis and Defense against Cyberattacks targeting EV Charging Coordination Systems in Community Energy Systems	Aykut Büyükkaya -	Asst. Prof. Dr. Mustafa Alparıslan Zehir	EE4197
Pharmacies on Duty for Turkey	Sertan Aygün -	Asst. Prof. Dr. Salih Bayar	EE4197
Localization of Objects From Multi Camera System	Mert Terzi -	Prof. Dr. Gökhan Bora Esmer	EE4197
Development of Industrial Weighing Systems with Reinforcement Learning	Mert Eren Ağcabay -	Assoc. Prof. Dr. Engin Maşazade	EE4197
Packet Loss Rate Prediction for Vehicular Networks with Regression Methods	Ali Vatan Güç - Zeynep Doğan - Ege Okan Kalı -	Assoc. Prof. Dr. Engin Maşazade	EE4197
Precise Reconstruction of Three Dimensional Objects From Digital Holographic Images	Ataberk Gedik	Prof.Dr. Gökhan Bora Esmer	EE4197
Infrared Temperature Measurement using Arduino	Enes Atan -	Asst. Prof. Dr. Mohammad Alsunaidi	EE4197
Tree detection from satellite images via deep learning	Talha Yavçın - Emre Altuntaş -	Prof. Dr. Cem Ünsalan	EE4197
Visual Dialog Application For Visually Impaired People.	Tuncer Cem Uğurluer -	Prof. Dr. Cabir Vural	EE4197
Smart City Lighting	Onur Abdi - Renan Nart Sezgin - Timur Er - Başak Öztoprak -	Lect. Şakir Bingöl	EE4197

Tree detection from LiDAR images via deep learning	Sıla İnanır - Şeyma Kaya -	Prof. Dr. Cem Ünsalan	EE4197
Optimization of Smart Traffic Signalization Systems	Sude Gürbüz - Betül Aydın -	Assoc. Prof. Dr. Onur Cihan	EE4197
Solving Different Types of 2D Puzzles with the Help of Artificial Intelligence Tools and Algorithms	Gamze Mert-	Assoc. Prof. Dr. Onur Cihan	EE4197
Model Selection of Casting Agencies Using Visual Dialogue and Deep Learning	Muhammed Bahaddin Aydoğan - Eren Karaslan - Egemen Şahin -	Prof. Dr. Cabir Vural	EE4197
Inductive Wireless Charging Coil Design	Melih Can Polat -	Prof. Dr. Osman Kılıç	EE4197
Predictive Road Hazard Notification and Navigation Assistance	Nasser Marouf -	Asst. Prof. Dr. Salih Bayar	EE4197
Implementation of MPPT Techniques for Photovoltaics	Yusuf Muhammet Erdem -	Assoc. Prof. Dr. Oğuzhan Ceylan	EE4197
Object tracking with using FPGA	Ahmet Talha Yıldırım -	Prof. Dr. Cem Ünsalan	EE4197
Implementation of Smart Grid Environment	Fatih Yılmaz - Berkay Zorlu - M. Yavuz Tiryaki -	Lect. Şakir Bingöl	EE4197
Prediction of stock market prices with using Machine Learning(with Python)	Melih Alparslan Aksoy-	Assoc. Prof. Dr. Fulya Çallıalp	EE4197
Rail systems signalization with reed relays	Mehmet Fatih Bor- Velat Çiftçi-	Prof. Dr. Osman Kılıç	EE4197
Memristor-based Latch and Flip-Flop	Deniz Gönül-	Asst. Prof. Dr. Ahmet Unutulmaz	EE4197
Brushless Sensorless DC Motor driver	Ebubekir Demirhan -	Prof. Dr. Osman Kılıç	EE4197
Low Carbon Charging and Green Charging Solutions for Electric Bus Public Transport Fleet	İlayda Kaya -	Asst. Prof. Dr. Mustafa Alparslan Zehir	EE4197
Bluetooth-based Light Control Using Arduino	Ali Bora Manavoğlu -	Asst. Prof. Dr. Ahmet Unutulmaz	EE4197
Sentiment Analysis Trendyol Reviews	Ziya SARICAN -	Asst. Prof. Dr. Salih Bayar	EE4197