

2026-2027 EEE491/492 Project Groups				
Project No	Student No	Student Name	Advisor	Projet Name
1	23111010036	Mustafa USTAÖMEROĞLU	Prof. Dr. Firat HARDALAC	Autonomous Multi-Agent Air Combat Maneuvering (Dogfight) Simulation Using Deep Reinforcement Learning
	23111012060	Berkay TAYMAZ		
	22111012403	Mam VAKILI		
2	22111012019	Hasan Berke KURUBAŞ	Prof. Dr. M. Cengiz TAPLAMACIOĞLU	Smart Energy Management System (EMS) with Zero-Grid Injection and AI-Driven Priority Load Balancing
	21111010032	Muhammed Emin BARAN		
	23111010035	Kağan ÖZER		
	23111012406	Selehaddin KURT		
3	23111012058	Can Kırac ÖNDER	Prof. Dr. Erkan AFACAN	Drone Jammer
	21111012019	Enes ERTEM		
	23111012061	Seha SOYÜNEN		
	22111012058	Sevda OĞRAŞ		
4	22111010764	Ekrem OLGUN	Prof. Dr. Erkan AFACAN	ElGamal Encryption System
	21111010034	Ensar POLATTIMUR		
	21111010022	Mustafa Selim SÜMER		
5	22111010058	Okan DALKIÇ	Prof. Dr. Erkan AFACAN	Smart Antenna System
	23111010001	Arda ŞEN		
	22111010062	Ömer Efe FİŞNE		
6	23111010067	Şüheda Enhâr AÇIKEL	Prof. Dr. Özgül SALOR-DURNA	Evaluation of Flicker Perceptibility Thresholds in Modern LED and Incandescent Light Sources for Re-Evaluating IEC Std. 61000-4-15
	23111010061	Arda İKİNCİ		
	23111010060	Samir HOMSI		
	23111010044	Eren Utku HÜSMEN		
7	22111012059	Mevlüt ÖZEN	Prof. Dr. Özgül SALOR-DURNA	Real-Time Polyphonic Music Transcription System via Embedded Constant-Q Transform (CQT) and Automated Notation Alignment
	23111012030	Burak Emre ÖVÜÇ		
	22111012757	Mert İŞERİ		
8	21111012409	Yusuf HİKMET	Prof. Dr. Saffet AYASUN	IoT-Enabled Hybrid (Solar/Wind) Microgrid Power Management and Smart BMS Design
	201110801	Sahymyrat SATLYKOV		
	201110713	Muhammed Enes SEKME		
9	22111012014	Adil Efe ŞENTÜRK	Prof. Dr. Hasan Şakir BİLGE	Real-Time Object Detection on FPGA Using a Custom RISC-V Architecture and AI Accelerator
	23111012057	Yaren ÖZDEN		
	22111012017	Metin SATI		
	23111012056	Rümeysa Eda SOĞANCI		
10	22111012054	Samet BAĞATUR	Prof. Dr. Hasan Şakir BİLGE	Reflex Brake: Vision-Triggered Ultra-Low Latency Autonomous Emergency Braking System via FPGA Hardware Acceleration
	23111012062	Meryem BÜLBÜL		
	22111012030	Yuşa Eren KARACA		
	22111012023	Berkay DEMİR		
11	22111012050	Yakup Berat KAYA	Prof. Dr. Nursel AKÇAM	Design of a Multi-Band, Two-Axis Mechanically Steered Antenna Head for Electronic Warfare Direction Finding
	181112026	Cem Kutay NANÇİN		
	23111012022	Enes SÖKMEN		
	23111012042	Furkan KART		
12	23111012003	Muhammed Pusat ÖZÇELİK	Prof. Dr. Ali KARA	Continuous and Non-Invasive Heavy Metal Detection in Liquid Media via Microwave Resonator Sensing
	23111012054	Ömer Faruk KOLAYCA		
	21111012007	Uğur Atakan DEMİREL		
	23111010753	Bora ÇETKİN		
13	22111010054	Eren SARI	Prof. Dr. Mehmet ÇİYDEM	Antenna System for Satellite Ground Control Station (S-Band)
	21111010029	Koray CEBRAİLOĞULLARI		
	23111012001	Kemal Efe ÇIRAKOĞLU		
	22111010077	Rıdvan DEMİRHAN		
14	22111010024	Muhammet Salih ÖZTÜRK	Prof. Dr. Mehmet ÇİYDEM	Antenna System for Satellite Ground Control Station (X-Band)
	22111012047	Elif ERASLAN		
	22111012756	Tarkan Celal YASA		
	22111010063	Züleyha ACAR		
15	22111010072	Hatice Yaren KEL	Prof. Dr. Mehmet ÇİYDEM	Antenna System for Satellite Ground Control Station (X-Band)
	22111010076	Sait AYDIN		
	201110083	Ali Salih ACAR		
16	22111010029	Emre Can KURT	Prof. Dr. Bünyamin TAMYÜREK	Design of a Compact DCDC Converter for Supercapacitor Integration in Missile Applications
	21111010027	Erkay Enes KARAKUŞ		
	22111010068	Yağmur ÖZTÜRK		
17	22111012044	Hakan KARAGÜLLE	Prof. Dr. Özgür ERTUĞ	Deep Learning Based Modulation Recognition on ADALM-PLUTO SDRs
	22111010015	Betül TÜYSÜZ		
	22111012011	Hakan TOPÇUOĞLU		
	22111010046	Mustafa Alper ÇAY		
18	22111012016	Yavuz Arda KADİROĞLU	Prof. Dr. Tuğba Selcen NAVRUZ	Design and Implementation of a Gesture-Controlled Transformable Aerial-Ground Robotic Platform for Search and Exploration
	22111012060	Kutluhan YILMAZ		
	22111010061	Abdullah PINARBAŞI		
	23111010754	Abdulsamed GÜNER		
19	22111010082	Hasan Baran CAN	Prof. Dr. Tuğba Selcen NAVRUZ	Design and Implementation of a Gesture-Controlled Transformable Aerial-Ground Robotic Platform for Search and Exploration
	22111010002	Cuma Deniz İŞİK		
	23111010027	Zübeyir Şamil KESKİN		
	23111010075	Cemile Eda KAYA		
20	22111012056	Hümeyra ÖZYALÇIN	Prof. Dr. Hüsnü Deniz BAŞDEMİR	Software Based Radar Cross Section (RCS) Classification for Unmanned Air Vehicles
	22111012021	Aysun AKSOY		
	201112036	Yasin MEŞE		
21	22111010004	Ahmet Meriç ÇANLI	Prof. Dr. Süleyman Sungur TEZCAN	"Regional Micro-Spray and Sludge-Prevention" Smart Washing System for Agricultural Dust, Pollination Residue, and Bird Droppings
	22111010047	Barış KARADOĞAN		
	C201140022	Ece GÖL		
	22111010051	Beyza HAŞLAK		
22	22111010501	Coşkun YARDIMCI	Prof. Dr. Mehmet Feyzi AKŞAHİN	AI-Supported Real-Time Health Monitoring and Early Fault Detection System for UAV Avionics
	22111010003	Abdulkâim BABUR		
	21111010044	Feyza YURTTAŞ		
	21111012016	Muhammet SEVİNÇER		
23	191110506	Hüseyin ÜNAL	Prof. Dr. Mehmet Feyzi AKŞAHİN	Autonomous UAV Navigation and Mission Management with Multi-Modal Cognitive Architectures in Dynamic Environments
	23111010024	Edanur DEMİRCİ		
	22111010006	Hatice Esra KÖROĞLU		
	23111010018	İrem Gül BAYRAKTAROĞLU		
24	22111010031	Begüm BEŞKALE	Prof. Dr. Mehmet Feyzi AKŞAHİN	Autonomous BLDC Motor-Driven Model Satellite: Industrial Flight Control, Telemetry, IoT And Interference-Resilient Communication System
	21111010048	Hüseyin KUTLUTÜRKAN		
	21111010035	Halil Mert COŞKUN		
	21111010503	Halil YURUCU		
25	21111010062	Ömer Faruk ÇİFTÇİ	Doç. Dr. Mijdat BALANTEKİN	Footsteps into Electricity
	24111010771	Mustafa Selçuk SOYÖZ		
	22111010067	Mustafa Berat ÖZTÜRK		
	21111010036	Mehmet Yamaç SERİN		
	191112006	Harun Raşit ASLAN		

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Project No	Student No	Student Name	Advisor	Projet Name
26	22111010057	Abrek Emir TAŞDEMİR	Doç. Dr. Derya YILMAZ	AI-Powered Food Waste Management System
	21111010005	Rafet Melih KÜÇÜKKAĞNICI		
	22111010065	Yiğit ATAR		
	23111010020	Zühal GÜNEY		
	23111010766	Umut EKER		
27	21111010024	Semih SABUR	Doç. Dr. Derya YILMAZ	Camera-Based Contactless Vital Sign Monitoring System
	191112406	Resulberdi SÜVLYEV		
28	22111012501	Nilsu ATA	Doç. Dr. Korhan KAYIŞLI	Intelligent Fault-Tolerant Flight Control Computer with Adaptive Sensor Fusion and On-Board Anomaly Detection for Autonomous UAVs
	22111010048	Emre ÇIVAK		
	23111010063	Bayram Hasan URUN		
	22111012032	Ayla Tuğba AKKUL		
29	21111010007	Kamil ÖZKILIÇ	Doç. Dr. Korhan KAYIŞLI	Solar-Powered Water Purification & Pumping System with MPPT and Inverter Integration
	21111010037	Mustafa Buğra KESKİNOĞLU		
	22111010760	Oğuz Efe ÇAMUR		
	22111010758	Yiğit CANBAZ		
30	22111010074	Yusuf ÇELİK	Doç. Dr. Korhan KAYIŞLI	AI-Assisted Fault-Tolerant Power Management and Distribution Unit for Autonomous UAVs
	22111010070	Melih ULUBAŞ		
	22111010027	Ahmet Efe GÜRSOY		
	23111010056	Göktaş Eren KURUKAN		
31	22111010033	Muhammed Furkan ÜNÜVAR	Doç. Dr. Korhan KAYIŞLI	AI-Assisted Edge-Based Predictive Maintenance and Fault Diagnosis System for Photovoltaic Power Plants
	22111010056	Mert Can KOKTAY		
	22111010075	Furkan ÖZBEK		
	23111010069	Aykut TAVAZAR		
32	22111010759	Esra BAĞCI	Doç. Dr. Mahmut Emin ÇELİK	FPGA-Based UAV Detection and Real-Time Video Processing System
	22111010081	Zühal Neda ÖZMEN		
33	22111010053	Umut ÖZEN	Doç. Dr. Mahmut Emin ÇELİK	Smart Unmanned Surface Surveillance and Patrol Platform
	22111012005	Mustafa HİLAL		
	22111012007	Bera FANSA		
34	22111010035	Esengül ALTINOK	Doç. Dr. Hıdr DÜZKAYA	Communication Kit for Forest Fire Detection
	201110057	Öznur SAVAŞ		
	22111010020	Eren SARIOĞLU		
	22111010009	Cansu CEVİZ		
	22111012057	Zeynep Süde ÖZTÜRK		
35	22111012502	Cafer Alperen ARTUN	Dr. Öğr. Üyesi Bülent DAĞ	A GaN/SiC Based Bidirectional Battery Charging System for DC Microgrids
	22111012061	Muhammet Said ÇAKAR		
36	23111010049	Buğra Eren SAYMA	Dr. Öğr. Üyesi Özgür ERGÜL	Follower Unmanned Aerial Vehicle (UAV)
	23111010025	Taha Hüseyin KOÇASLAN		
	21111010058	Kudret Gürkan AYNUR		
37	C21113032034	Zeynep ÖZTÜRK	Dr. Öğr. Üyesi Funda ERGÜN YARDIM	Metasurface-Supported Microstrip Antenna
	21111010061	Nefise EKİZ		
	22111010064	Aybala KILIÇ		
38	22111010071	Gökaltıp SAVAŞIR	Dr. Öğr. Üyesi Funda ERGÜN YARDIM	Wireless Power Transfer
	23111010068	Yağız HAYIRLIOĞLU		
	22111010069	Kadirhan YAMAN		
	22111010025	Battal Kaan EROL		
39	21111012021	Eren AÇIKGÖZ	Dr. Öğr. Üyesi Funda ERGÜN YARDIM	Design and Implementation of a Vision-Guided Modular Fixed-Wing UAV for Precision Multi-Payload Drop Operations
	22111012401	Ravan JABIYEV		
40	22111010030	İbrahim Emre BACAKOĞLU	Dr. Öğr. Üyesi Funda ERGÜN YARDIM	Kamikaze Drone Design
	22111010060	Kıvanç OYDU		
	22111010044	Tolga KARAPINAR		
	22111010059	Sudenaz BİLGİN		
41	21111012015	Nuh Furkan OLGUN	Dr. Öğr. Üyesi İhsan KANBAZ	Design and Implementation of an FPGA-Based Multi-Channel DRFM and Digital Beamforming Architecture for Radar Deception
	23111012045	Talhha ERASLAN		
	22111012024	Muhammet Ali KARA		
	22111012046	İrem Rana AKOL		
	22111012004	Haçrı Kerem KARAÜZÜM		
42	23111012700	Onur Berkay KARAKOÇ	Dr. Öğr. Üyesi İhsan KANBAZ	Reconfigurable S-Band Antenna Array Design for UAV and Drone Telemetry
	23111012757	Haluk ÜNLÜ		
	23111012008	Melih Mustafa MOLDUR		
	22111012043	Hikmet Korkut PEKER		
43	C21115050410	Hazel Nur ŞENTÜRK	Dr. Öğr. Üyesi İhsan KANBAZ	SWaP-Optimized Super-Directive Antenna Array for LPI/LPD and Anti-Jamming Tactical Communications
	22111010504	Batuhan YILDIZ		
	C201150017	Mert ÖZCAN		

*Projects highlighted in red have been assigned to students before the selection.