

Project Name	Start Date	End Date	Status	Details
Punica Enterprise Ecosystem	16.04.2023		Currently operating actively	At the core of the Punica ecosystem is a modular enterprise management platform bringing together human resources, project and task management, stakeholder relations, inventory tracking, document management, scheduling systems, and AI supported digital assistance within a unified digital environment.
NEU Link	12.08.2025		Currently operating actively	NEU Link is a comprehensive digital campus platform developed by Punica to connect students, graduates, academics, and university personnel within a single integrated ecosystem. The system combines communication tools, institutional announcements, event management, and digital community engagement infrastructures.
NEU Sports Academy Talent Identification (SATI)	19.12.2024		Currently operating actively	The SATI Project is a web based athlete monitoring and talent identification platform developed to manage physical, genetic, and performance related data through a centralised digital infrastructure. Through personalised analytics, the platform supports sustainable athlete development within the NEU Sports Academy.
ParkWard Smart Parking Barrier System	25.12.2025		Ongoing	ParkWard is a mobile application based smart access control system designed to prevent unauthorised use of controlled parking spaces through hardware integrated physical barriers and digital access infrastructures. The platform enables authorised users to manage access permissions remotely.

Electric Vehicle Charging Infrastructure	10.07.2024		Currently operating actively	The electric vehicle charging infrastructure project implemented under Günsel Energy was developed by the Punica team as a domestic technology solution encompassing both hardware and software components. Supported by a dedicated mobile application, the platform enables users to initiate, monitor, and manage charging processes.
Official Receiver and Registrar of Companies Department (RKMMMD) Information System	06.04.2026		Ongoing	The RKMMMD Information System is a comprehensive digital transformation project developed for the Official Receiver and Registrar of Companies Department under the TRNC Ministry of Economy and Energy. The system aims to digitalise institutional workflows through a fully integrated and regulation compliant infrastructure.
Department of Industry Information System	12.08.2025 /2nd phase start 06.04.2026	02.12.2025	Deployed (First Phase) / Expanding	The Department of Industry Information System was developed for the TRNC Ministry of Economy and Energy as part of a large scale institutional digital transformation initiative. Applications submitted through the industrial web portal are validated through integrated systems connected with relevant chambers.
Veri Klinik	-	-	Ongoing	Veri Klinik is a healthcare analytics and medical data visualisation platform developed to support data driven decision making, operational monitoring, and analytical reporting within healthcare environments. The platform transforms complex datasets into interactive and interpretable visual dashboards.
NEU Screens-	-	-	Ongoing	NEU Screen is a digital signage and centralised screen management platform developed to support the coordinated management,

				monitoring, and distribution of digital content across multiple display environments. The platform enables institutions to remotely control and manage interconnected screens.
OpenVPN Management Server	2017		Completed	A secure remote access and VPN management solution developed to enable controlled, encrypted, and reliable institutional access across distributed environments.
Burn Open Source Kuber Nets Finops Aracı	2026	2026	Completed	
2018 TRNC General Elections Software	2018	2018	Completed	Development of software infrastructure for the 2018 TRNC General Elections
Rosetta@home SARS CoV 2 Project	2020	2020	Completed	During the COVID 19 pandemic, the unit contributed computing resources to the international Rosetta@home SARS CoV 2 project, supporting global efforts in protein structure analysis.
ISO 9001 Quality Management System (Near East University)	Main Briefing 2026	-	Ongoing	ISO 9001 Quality Management System preparation support for Near East University
ISO 10002 Customer Satisfaction Management System (Near East University)	Main Briefing 2026	-	Ongoing	ISO 10002 Customer Satisfaction Management System preparation activities for Near East University.
ISO 27001 Information Security Management System(Near East University)	-	-	Ongoing	ISO 27001 Information Security Management System development and implementation support for institutional information security infrastructure.
ISO 9001 Quality Management System	Main Briefing	Surveillance	Completed	Completed the main briefings, surveillance audits, and certification process for the ISO

(Günsel Electrical Vehicle)	ng 2024	audits 2025			9001 Quality Management System at Günsel Electrical Vehicle.
ISO 4501 Occupational Health and Safety Management System (Günsel Electrical Vehicle)	Main Briefing 2024	Surveillance audits 2025	Completed		Completed the main briefings, surveillance audits, and certification process for the ISO 45001 Occupational Health and Safety Management System at Günsel Electrical Vehicle.
ISO 14001 Environmental Management System (Günsel Electrical Vehicle)	Main Briefing 2024	Surveillance audits 2025	Completed		Completed the main briefings, surveillance audits, and certification process for the ISO 14001 Environmental Management System at Günsel Electrical Vehicle.
ISO 10002 Customer Satisfaction Management System (Günsel Electrical Vehicle)	Main Briefing 2024	Surveillance audits 2025	Completed		Completed the main briefings, surveillance audits, and certification process for the ISO 10002 Customer Satisfaction Management System at Günsel Electrical Vehicle.
ISO 50001 Energy Management System (Günsel Electrical Vehicle)	Main Briefing 2024	Surveillance audits 2025	Completed		Completed the main briefings, surveillance audits, and certification process for the ISO 50001 Energy Management System at Günsel Electrical Vehicle.
ISO 22301 Business Continuity Management System (Günsel Electrical Vehicle)	Main Briefing 2024	Surveillance audits 2025	Completed		Completed the main briefings, surveillance audits, and certification process for the ISO 22301 Business Continuity Management System at Günsel Electrical Vehicle.
ISO 9001 Quality Management System (BTU Trading)	Main Briefing 2026	-	Completed		ISO 9001 Quality Management System preparation support for BTU Trading

ISO 9001 Quality Management System (Akdeniz Veterinerlik)	Main Briefing 2026	-	Completed	ISO 9001 Quality Management System preparation support for Akdeniz Veterinerlik
ISO 9001 Quality Management System (Ossan Pharmaceutical Warehouse)	Main Briefing 2026	-	Completed	ISO 9001 Quality Management System preparation support for Ossan Pharmaceutical Warehouse.
NEUIslanders Robotics – International Qualification & Debut (2012)	2012	2015	Completed	The NEUIslanders team qualified for RoboCup participation in 2012, marking the Center's entry into the RoboCup Small Size League. This foundational project established a fully autonomous robotic football system integrating mechanical, electrical and electronics, computer, and aviation engineering disciplines. The team successfully represented Near East University in early international competitions held in Mexico, the Netherlands, Brazil, and China. All electromechanical design, simulation, production, and assembly were carried out in-house, establishing the core hardware, embedded systems, and high-speed communication infrastructure required for autonomous gameplay.
NEUIslanders Robotics – 3rd Place in Europe (2016)	2015	2016	Completed	Building on the foundational system, this project focused on strategic and tactical advancements to compete at a higher level. The team refined its artificial intelligence software by implementing advanced behaviour-tree-based control architectures and enhanced opponent-tracking algorithms. Competing in China, the NEUIslanders achieved 3rd place in Europe in 2016. This milestone proved that the Center's in-house

				AI, real-time motion control, and multi-robot coordination systems could rival the best engineering universities on the continent.
NEU Islanders Robotics – RoboCup World Champion (2018)	2017	2018	Completed	The culmination of all prior R&D efforts, this project saw the NEU Islanders reach the pinnacle of the Small Size League. By integrating Z-number-based fuzzy logic systems to manage environmental uncertainty and perfecting omnidirectional motion kinematics, the robots achieved unmatched agility and ball-interception accuracy. Competing in Japan and Canada, the team secured the RoboCup Small Size League World Championship title in 2018. This achievement also resulted in multiple academic publications in robot navigation, fuzzy logic control, behaviour-based systems, and multi-agent coordination.
NEU Solar Racing Team NEU Solar Racing Team – RA25 & Adventure Class World Champion (2014)	2013	2014	Completed	Established in 2013, the team designed and manufactured the RA25 three-wheeled solar vehicle entirely through in-house engineering. RA25 was inspired by Ra, the sun god in Egyptian mythology, and the number 25 representing Near East University's 25th anniversary. It became the first automobile produced and licensed in the Turkish Republic of Northern Cyprus. In the 2014 Sasol Solar Challenge, RA25 completed 628 kilometers using only solar energy and won the Adventure Class World Championship. The vehicle featured a high-efficiency solar array, solar energy control electronics, lithium battery systems, battery monitoring circuits, temperature/voltage/current control

				infrastructure, and a rear-wheel DC motor system.
NEU Solar Racing Team – RA27 & Advanced Development (2016)	2015	2016	Completed	Building on the success of RA25, the team developed RA27 as a four-wheeled solar vehicle featuring a carbon fiber body structure, rear-wheel electric drive architecture, high-efficiency solar panels, improved power electronics, and a refined telemetry and control infrastructure. Both vehicles included over 100 sensors transmitting live vehicle data to support monitoring, diagnostics, and race strategy. RA27 competed in the 2016 Sasol Solar Challenge in South Africa, completing long-distance racing conditions and strengthening the Center's expertise in sustainable mobility, lightweight structures, vehicle dynamics, solar energy management, and embedded vehicle systems.
Unmanned Air Vehicles – VTOL & Fixed-Wing Aircraft	2010	2024	Completed	Expanding beyond multirotor platforms, the Center has developed vertical take-off and landing (VTOL) aircraft and fixed-wing UAV systems. This project includes advanced mission planning, autonomous flight control, embedded avionics integration, and electromechanical system design. The work demonstrates the Center's comprehensive capability across diverse unmanned aerial platforms, from multirotor agility to fixed-wing endurance and VTOL versatility.
Unmanned Air Vehicles – Multirotor Autopilot Systems	2010	2020	Onhold	The Center has conducted UAV research for more than ten years, focusing on multirotor platforms. The team has developed autopilot systems capable of controlling multirotor drones, including mission planning capability,

				flight control software, electromechanical design, embedded electronics, and autonomous control architecture. All UAV electromechanical design and manufacturing are carried out by the Center's engineers.
Mechanical Ventilator Development – Covid-19 Response	2020	2020	Completed	During the Covid-19 pandemic, the Center rapidly combined its expertise in robotics, embedded systems, control software, and medical research to develop two different ventilator models in collaboration with Near East University Hospital. The ventilator systems were designed and tested according to relevant medical standards, covering electronic hardware development, software control, mechanical design, user interface development, system testing, and preparation for scalable production. This project reflects the Center's ability to transform engineering know-how into practical healthcare technologies during emergency conditions. [Link]
Covid-19 Emergency Medical Support Products	2020	2020	Completed	In response to the Covid-19 pandemic, the Center designed and manufactured face shields, distributing more than 10,000 units across the island. The team also designed a ventilator splitter and released the design as an open-source solution for wider community use. Additionally, the Center developed Covid-19 test tube storage boxes. This project highlights the Center's capacity for rapid prototyping, large-scale additive manufacturing, emergency-response production, and practical medical supply solutions during a global health crisis.

Smart ECG T-shirt – Wearable Health Monitoring	2021	2021	Completed	The Center is developing a smart ECG T-shirt capable of recording electrocardiogram (ECG) data through an onboard drive. The wearable system also includes SpO2 and temperature sensors for comprehensive vital sign monitoring. A mobile application is being developed by the Center's engineers to transmit and report real-time health data to both the user and, when necessary, to the hospital. This project combines wearable electronics, biomedical sensors, mobile application development, real-time data processing, and medical communication systems.
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