

Emre Bulut

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PROFESSIONAL SUMMARY

Electrical and Electronics Engineering student combining hardware expertise with advanced software and artificial intelligence capabilities. Experienced in enterprise IT virtualization, field electrical operations, and end-to-end product development. Proven track record in deploying computer vision models, engineering IoT energy systems, and leading multidisciplinary teams. Eager to leverage a versatile, cross-disciplinary technical skill set to solve complex engineering challenges and drive technological innovation.

EDUCATION

Istanbul Medipol University

Expected Graduation: June 2028

Bachelor's Degree, Electrical and Electronics Engineering (3rd Year Student)

PROFESSIONAL EXPERIENCE

Ziraat Teknoloji A.Ş.

July 2026 – Present

System and Virtualization Engineering Intern (Corporate IT & Operations)

- Monitor and manage enterprise-scale IT infrastructures, VMware vSphere & Workstation virtualization architectures, and HPE iLO for out-of-band server management.
- Develop and deploy system automation workflows on Red Hat Enterprise Linux (RHEL) servers, streamlining operational tasks and ensuring business continuity.
- Proactively analyze planned and unplanned system downtimes, conducting root cause analysis alongside experienced engineering teams.

Gülverdi Elektrik

June 2025 – August 2025

Electrical Engineering Intern (Field & Maintenance Operations)

- Assisted in the maintenance and troubleshooting of electrical panels and industrial equipment, gaining practical hands-on experience in field operations and safety protocols.
- Supported the tracking of technical inventory and equipment conditions, contributing to a solid foundational understanding of physical production environments.

KEY ENGINEERING & AI PROJECTS

RoomGate-AI (Smart Access & Occupancy Monitor)

May 2026 – June 2026

- Engineered an AI-driven security prototype bridging computer vision with hardware control. Developed an object detection model (YOLOv8) optimized for edge computing and integrated it with a relay-based lock system.

Autonomous Hardware & Energy Systems (R&D)

May 2026 – July 2026

- Engineered a 3-Axis Solar Panel Tracking System and IoT-based Smart Load Shedding prototypes for real-time energy consumption logging, system optimization, and overload prevention.

Teknofest: 5G & AI Smart Road Safety Competition

2026

- Designed and deployed an advanced computer vision architecture analyzing live video streams. Took full ownership of data pipelines, labeling processes, and fine-tuning pre-existing models (YOLOv8, MobileNetV3).

Sırada | Co-Founder (Product Management & Business Innovation)

Dec 2025 – July 2026

- Led the end-to-end product development of a B2B smart queue and reservation platform. Applied agile methodologies to iterate on features based on performance data and user feedback.

VoltPilot (Engineering Data Simulation)

April 2026 – June 2026

- Developed a data-driven engineering simulation software analyzing electrical grid capacities for EV charging infrastructure investments.

LEADERSHIP & EXTRACURRICULAR

IEEE Communications Society (ComSoc) Chairman

Istanbul Medipol Uni.

- Fostered a "Thrive Together" culture by coordinating multidisciplinary engineering teams, organizing technical seminars, and encouraging continuous learning.

SKILLS & COMPETENCIES

Domain Expertise: Artificial Intelligence, Energy Systems, IoT, Edge Computing, Product Management, System Administration (VMware vSphere/Workstation, RHEL, iLO, IT Automation), Root Cause Analysis

Technical Tools: Python, Java, C, Computer Vision (YOLOv8, Object Detection), Data Labeling, MS Office Tools (Advanced)

Soft Skills: Analytical Problem-Solving, Initiative, Collaborative Team Player, Adaptability

LANGUAGES

- Turkish:** Native
- English:** Advanced