İHSAN ÇETİN

MECHATRONICS ENGINEER

05434863530 | ihsancetin60@gmail.com | linkedin.com/in/ihsancetin

RELEVANT EXPERIENCE

Shift Engineer, ASD Laminat — Düzce **| May 2025 – Oct 2025**

- Managing all production processes in the factory during the shift
- Updating the production schedule and coordinating production activities
- Monitoring personnel and effectively managing the team

Instructor, Deneyap — Kocaeli **| May 2023 – July 2024**

- Teaching middle school students on Artificial Intelligence, Electronics, IOT, and Robotic
- Preparing educational materials and content

Engineer Candidate, Prometeon — Kocaeli **| June 2022 – June 2023**

- Monitored preventive maintenance activities.
- Conducted breakdown analysis to identify root causes and improve system reliability.
- Managed documentation and prepared detailed reports on maintenance activities.
- Tracking and reporting of KPIs under area of responsibility

Student Laboratory assistant, Kocaeli University — Kocaeli **| March 2022 – May 2022**

- In experiments, I undertook the role of assisting the responsible faculty member and carried out the reporting processes. I worked on electronics and sensors

EDUCATION

Bachelor of Science, Mechatronics Engineering **| Sep 2018 – July 2023**
University of Kocaeli

Master of Science, Information Systems Engineering **| Feb 2024 – Exp 2026**
University of Kocaeli

CORE COMPETENCIES

- Technical Drawing
- PLC,SIEMENS S7,
- TIA PORTAL,
- ERP, SAP PM
- ABB Robot Studio
- CMMS, Maintenance Management
- AutoCAD, Solidworks
- Modbus, Profinet, TCP, EtherCat
- TPM, KPI
- Root cause analysis, RCA
- Condition Monitoring
- Asset Management
- Researching new technologies
- Preventive Maintenance
- Collaboration and Teamwork
- Excel, Google Sheets, Power BI
- SQL, Python, C#,
- GNU/Linux

LANGUAGES

- Turkish - Native
- English – Intermediate

PROJECTS

Unmanned aerial vehicle (TEKNOFEST)
We designed an autonomous unmanned aerial vehicle with a wingspan of 1200 mm for the Teknofest Tübitak International UAV Competition. I was a member of the software team, and I developed a target detection algorithm using computer vision techniques and artificial intelligence models for the aircraft. We worked within a team of 10 people, covering the fields of Mechanical, Electronic, and Software engineering

Autonomous Guıded Vehıcle (TEKNOFEST)
As part of the Teknofest Industrial Digital Technologies Competition and our capstone project, we designed an AGV (Autonomous Guided Vehicle). In our project, line following, QR code reading, and SLAM algorithm were used for autonomous navigation. Geared DC motors and linear actuator motors were implemented for load-carrying capacity. The vehicle was controlled using a Raspberry Pi 4B and Arduino Mega 2560, while cloud-based data tracking was achieved through digital twin technology. Competing as a team of 10 members, we reached the finals and secured 4th place.

MAINTENANCE DASHBOARD (PROMETEON)
I conducted analyses on machine breakdown rates, planned maintenance efficiency statistics, and equipment performance using SQL for the maintenance department. Subsequently, I designed the user interface. This project involved storing data previously managed in Excel in a database, ensuring data integrity, standardization, facilitating data access, and enhancing data security. Additionally, it contributed to making raw data more meaningful. Our project also assisted in achieving Overall Equipment Efficiency (OEE) objectives %85. ihsancetin.com.tr/Grafana/

MAINTENANCE Q POINTS (PROMETEON)
I took on a project aimed at preventing potential issues that could adversely affect production quality due to periodic inspections of production machinery in the factory. This project involved creating detailed documentation for each machine, outlining the points that needed to be checked on the machine, along with instructions on how, how often, and by whom these checks should be conducted. In this project, we prepared booklets of approximately 30 pages for each machine. ihsancetin.com.tr/QPoint/

COURSES

- Coursera - Data Structures
- Elginkan Vakfı - Elektrik Kumanda ve PLC
- Elginkan Vakfı - Elektrikli Araç Bakım Yönetimi
- Cisco Academy - Introduction to IoT
- Udemy - OEE Management
- Coursera - Fundamental of Industrial Robotics
- İmes OSB MM Mühendis Geliştirme Programı