

Mechatronics Engineer

Samet Can Ceylan

Purpose

Mechatronics Engineer with a unique background spanning from the CNC workshop floor to advanced autonomous system integration. Expert in harmonizing mechanical fabrication discipline with AI-driven robotics (ROS, Jetson Nano, Pixhawk). I specialize in developing high-efficiency, manufacturable solutions for defense and ag-tech, ensuring that complex autonomous designs are grounded in real-world production feasibility.

Experience

June 2025 – September 2025

Intern / Mechatronics Technician | Genel Değirmen Makine

During my internship at Genel Değirmen Makine, I played an active role in the mechanical assembly, maintenance, and troubleshooting of industrial milling systems, contributing directly to system continuity. I gained significant field experience in mechatronic system integration by executing technical operations such as electrical-electronic component installation, control panel wiring, and sensor calibration. Additionally, I developed technical solutions to enhance production efficiency by monitoring PLC-controlled units on automation lines and performing periodic inspections of mechanical components.

June 2024 – August 2024

Assembly Technician | TCE Converting

During my tenure as an Assembly Technician at TCE Converting, I performed the precision assembly and alignment of high-tech converting machine components within millimeter tolerances, strictly adhering to technical blueprints. I managed the integration of pneumatic control units, sensor arrays, and actuator systems into mechanical chassis, proactively identifying and resolving mechanical interferences and operational faults during initial commissioning phases. By maintaining rigorous technical documentation standards, I contributed directly to the structural integrity and seamless operational performance of the manufactured systems.

June 2022-September 2022, June 2023-September 2023, August 2024–September 2024

CNC Operator & Maintenance Technician | Yavuzsan Otomotiv

As a CNC Operator and Maintenance & Repair Technician at Yavuzsan Otomotiv, I executed the precision machining of high-tolerance automotive components in strict accordance with technical drawings and engineering specifications. I managed CNC setups, tool calibrations, and program optimizations to maximize production efficiency and maintain superior part quality. Beyond production, I spearheaded planned and preventive maintenance programs, performing both mechanical and electronic troubleshooting. By delivering rapid technical interventions for unexpected malfunctions, I significantly minimized line downtime and ensured seamless operational continuity across the manufacturing floor.

Education

September 2022 - Present

Mechatronics Engineer

Necmettin Erbakan University

Abilities

- SolidWorks, AutoCAD
- ROS
- Image Processing
- Manufacturing Methods

Areas of interest

- Reverse Engineering
- RC Modeling and Field Tests
- Restoration

Contact Information

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