

ALI POLAT

Instrumentation & Automation Engineer

DCS / PLC / SCADA · Field Instrumentation · Commissioning · Maintenance · Project Management

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PROFESSIONAL SUMMARY

Instrumentation and Automation Engineer with 6+ years in petrochemical, power and industrial facilities. Commissioned approximately 10,000 instruments and control loops in 8–9 months at SASA, and built a USD 50 million detergent factory from scratch in 18 months at Beyaz Kağıt. Hands-on with Foxboro DCS, Siemens S7 PLC, SCADA and ATEX instrumentation; led field teams of up to 25 people and 10–12 subcontractors. Based in Adana, available for site work in Ceyhan and Yumurtalık.

TECHNICAL SKILLS

Automation & Control: Schneider Electric Foxboro DCS · Siemens S7 PLC / TIA Portal · SCADA / HMI · Modbus · ESD / FGS · Cause & Effect · Alarm Management

Instrumentation: Field Instrumentation (flow, pressure, level, temperature) · Control Valves · ROSOV · Tank Gauging · Calibration · HART · ATEX / Ex-proof

Commissioning & Maintenance: Loop Checks · Testing & Commissioning · FAT / SAT · Asset Maintenance (MRO) · Troubleshooting

Electrical & Power: MV / LV Distribution · Transformers & Switchyard · MCC / Motor Starter · VFD · Earthing & Lightning Protection

Project & Design: Project Management · Subcontractor Management · P&ID · Loop / Single-Line Diagrams · Instrument Index · HVAC & BMS · Feasibility & Cost · Procurement

Software: AutoCAD · Navisworks · SAP · Autodesk Eagle · Python · MS Office

PROFESSIONAL EXPERIENCE

Instrumentation & Automation Engineer

Jan 2024 – Present

SASA Polyester Sanayi A.Ş. — Adana

- Led installation and commissioning of field instrumentation, control and ESD/FGS safety systems at a petrochemical plant producing 200 tons of PTA per hour.
- Planned and executed testing and loop checks for approximately 10,000 instruments and control loops during an 8–9 month commissioning phase.
- Developed control logic on Schneider Electric Foxboro DCS and Siemens S7 PLC (TIA Portal); provided operations support and optimized the process.
- Designed SCADA/HMI screens; performed alarm management and trend analysis.
- Selected, installed and calibrated ATEX/Ex-proof control valves and field instruments (flow, pressure, level, temperature); performed HART-based diagnostics.
- Prepared and verified Cause & Effect matrices for ESD/FGS safety systems.
- Took part in commissioning a 35 MW power plant, steam turbines and utilities; configured MCCs, motor starters and VFDs.
- Prepared P&IDs, loop diagrams, instrument index and datasheets; managed asset maintenance (MRO) and loop-check processes.

Project & Investment Engineer

Feb 2022 – Nov 2023

Beyaz Kağıt A.Ş. — Adana

- Built a dishwasher tablet and detergent factory from scratch in 18 months with a budget of approximately USD 50 million; ran every phase from engineering to commissioning.
- Coordinated and managed 10–12 subcontractors on site simultaneously.
- Managed the MV distribution network and transformer installation; designed main/sub distribution boards, SCADA scenarios and plant-wide earthing and lightning protection.
- Prepared P&IDs, layouts and single-line diagrams for tank farms, silos and bunkers.
- Designed and implemented HVAC, BMS and cleanroom systems in line with industrial standards.
- Carried out feasibility and cost analyses; managed domestic and international procurement including FAT/SAT, the CHP feasibility study and supplier relations.

Electrical Engineer

Jun 2020 – Jan 2022

İlker Gönen Engineering (TEİAŞ Subcontractor)

- Carried out circuit breaker replacement and power transformer and switchyard maintenance at high-voltage substations.
- Provided technical support for energization/de-energization operations during planned outages.
- Performed site supervision, quality control and firewall construction supervision; ensured OHS compliance and coordinated with transmission operations teams.

Electronics Engineer (R&D)

May 2019 – Feb 2020

Nitro Bilişim Otomotiv

- Developed a vehicle ECU (engine control unit) fault-diagnostic device from concept to prototype testing.
- Tested PCB and embedded-system prototypes; managed technical service and workshop processes.

EDUCATION

Master's Degree — Business and Technology Management

2021 – 2022

Çukurova University

Bachelor's Degree — Electrical & Electronics Engineering

2012 – 2018

Osmaniye Korkut Ata University

CERTIFICATIONS & AUTHORIZATIONS

- Operating Responsibility Authorization for HV Installations — EMO (Chamber of Electrical Engineers)
- Earthing Authorization Certificate for Electrical Installations — EMO
- Project Management Professional (PMP®) Foundation Training — Liderler ve Projeler Platformu
- Entrepreneurship Training — Adana Entrepreneurship Center, Çukurova University

LANGUAGES

Turkish — Native · English — Intermediate (B1)

REFERENCES

Türker Akpınar — Plant Manager · +90 533 774 91 03

Kerem Bilgi — Field Supervisor · +90 538 440 27 18