TURAN YANIK

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SUMMARY

Innovative MSc. Advanced Product Design Engineering student at Kingston University, seeking part-time employment to complement ongoing studies.Highly organised, reliable, and proficient in balancing academic and work commitments.
Experienced in design, simulation, 3D printing/manufacturing, fabrication, documentation and assembly. Eager to apply my engineering expertise, strong field experience and team work abilities in a dynamic work environment.

EDUCATION

Kingston University, Kingston upon Thames
MSc Advanced Product Design Engineering & Manufacturing — **Jan 2025 - Present**

Gaziantep University, Gaziantep
BSc Mechanical Engineering (Teaching Language: English) — **Sep 2009 - Mar 2015**

WORK EXPERIENCE

Freelance Design Engineer, Turkiye — Mar 2024 - Present

- **E-Foil Wing Design and Simulation,** CAD with SolidWorks and flow simulation with ANSYS FLUENT. Microsoft Excel for design calculation to define expected dimensions, loads,lift coefficient, power consumption. (Start-up: PalmTech)

Lead Research & Development Engineer, baibars Mechatronics and Aviation, Mersin/Turkiye — Sep 2021 - Mar 2024

- **Tethered drone** design calculations for system power consumption, propolsion system selection, elevation vs. remaining power for payload analysis, BOM for purchase order, cut-list for manufacturing. 3 hours continues flight achieved with prototype. Analytical vs. field test (validation) comparison (deviation below 9%).
- **Fire Fighting Drone**, High-performance fire-fighting drone, from design to field testing. Ablity to work up to 37m with modular nozzle.
- **Motor-Propeller Test Stand**, conducting successful tests on over 80 motors for improved performance and reliability. Able to get power, ampere, thrust values up to 48 inch propeller.
- **Battery Discharge Unit**, discharge and balance battery cells to a certain voltage, Tested and discharged over 100 batteries.
- **Drone Spare Parts Design for 3D Printing**, reducing drone repair and maintenance time by designing custom spare parts for 3D printing, enhancing agility and cost-effectiveness.

Freelance Design Engineer, Turkiye — Dec 2019 - Sep 2021

- Printable products support for small-business and machine parts for hobbiest.

Mechanical Field Engineer, Teknokon Group, Turkiye Apr 2018 - Dec 2019

Lead highly experienced team, and traveled around country for different projects:

- Gas Turbines: Siemens 4000F CHS replacement, HGP inspection, combustion chamber inspection.
- Steam Turbines: SST-600 assembly, piping and compensator replacement.
- Valves and Pumps: Maintenance of Caldera and Mogas valves, GEHO pump check valve replacement.
- Installation and Repair: Autoclave units, sanitary pipe/tube systems, PM 5 deflector bracket, HRSG baffle plates.

Mechanical Field Engineer, INCO Group, Qatar May 2016 - Dec 2016

Umm al Houl 2500MW CCPP

- HRSG casing, module, and steel structure assembly.
- General and critical lifting plans via AutoCAD.
- RFI, NCR, TQ, MS, including HRSG liner plate and insulation repair.
- Construction follow-up and reporting.
- Rigging Supervisor (Enertech Qatar, Expired).

Mechanical Engineer, Ever Industry, Mardin/Turkiye Feb 2015 - Jul 2015

TAHA 200MW CCPP

- Hydrotesting and inspection of water storage tanks (API650), fire fighting pipelines (HDPE), and NG pipeline (BOTAS standards).
- Inspection of gas turbine flushing lines and Luboil NAS follow-up.
- Managing punch lists for system readiness.
- Documentation: ITP, RFI, NCR, TQ, MS, and test packages.

Intern Engineer, Turkiye

Worked on storage tanks manufacturing, heating coil design, manufacturing follow-up, and reporting (Sep 2014-Jan 2015), steel structure fabrication and dimensional control, coating thickness checks (Aug 2011), gear pump manufacturing follow-up (Aug 2010).

TECHNICAL SKILLS

- SolidWorks
- ANSYS FLUENT
- ANSYS FEA
- MS Word, MS Excel
- Blender

PROFESSIONAL SKILLS

- Self-motivated
- Resilient
- Collaborative
- Work ethic
- Team management and coordination

References available upon request