

Serkan Ünlü

Mechanical Engineer | Quality & Product Development



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📅 30.06.1993

🚗 B2

I began my career as a Quality Assurance Engineer. I managed the VDA 6.3 audit processes and successfully completed the audit in a company that is a Man Turkey supplier. I have gained experience with Quality tools like PPAP, 8D & 5 why.

After that, I worked as a Design and Manufacturing Engineer in a company operating in the construction sector.

I am currently working at Kalyon PV, the solar industry giant in Turkey. I started here as a Quality Assurance Engineer. Afterwards, I continued as an Incoming Quality Control Engineer. During this time, I obtained extensive knowledge about suppliers and raw materials. Nowadays, as a result of the know-how I gained from the past, I am working as a Senior Quality Product Technology Engineer. I manage the UL and TUV Nord certification processes and specialize in new module designs, finite element analysis of designed products, prototyping, and testing.

As of 2025, I started my Master's Degree in Quality and Conformity Assessment at Hacettepe University.

Skills

SolidWorks

AutoCAD

3D Modeling

Product Desing

Finite Element Analysis

Product Development

Project Management

Supplier Development

ISO 9001 PPAP

Document Management

Total Quality Management

Work History

2022-06 – Current

Senior Quality Product Technology Engineer

Kalyon PV

📍 Ankara

- Developed new products, designed solid models and technical drawings with SolidWorks and AutoCAD.
- Determined the dimensions of the product and the raw materials to be used (glass, encapsulant, etc.)
- Performed finite element analysis to calculate the loads that the modules can carry.
- Prepared a bom list by deciding on the raw materials to be used in the new product.
- Made project plans for new product design.
- Provided the UL and TUV Nord IEC 61730 & 61215 certification processes of the products.
- Monitored and revised BOM lists of current products.
- Reviewed technical specifications from customers.

2022-01 – 2022-06

Incoming Quality Control Engineer

Kalyon PV

📍 Ankara

- Managed incoming quality control processes.
- Reported of incoming materials on a weekly basis.
- Arranged of incoming quality control procedures.
- Cooperated with units such as procurement, warehouse, planning and logistics in tracking nonconformities.
- Contacted the supplier to establish the necessary action plans for the nonconformity product.
- Contributed to supplier development as a result of nonconformities.
- Executed of incoming quality control processes of new materials procured within the scope of new material trials.

2021-11 – 2022-01

Quality Assurance Engineer

Kalyon PV

📍 Ankara

- Provided document management and arranged of quality procedures.
- Participated in internal audits , customer audits and supplier audits.
- Monitored customer complaints. Immediate actions are taken with the team by using the 8D problem solving method and 5-Why techniques.
- Participated in audits such as TUV Nord-TSE ISO 9001, IEC 61730, IEC 61215.
- Collected the reports from the relevant Quality units and prepared the monthly Quality presentation.
- Executed corrective and preventive action (CAPA) activities.
- Monitored of calibration plans.

2021-05 – 2021-10

Desing and Manufacturing Engineer

Gordion Beton İnşaat Ltd. Sti. 📍 Ankara

- Made product designs in SolidWorks&AutoCAD.
- Manufactured of related products using CAD/CAM applications.
- Completed of the manufacturing of the designed parts in plasma cutting and press brake devices.

2020-01 – 2020-09

Quality Assurance Engineer

Sanifoam Sünger San.ve Tic.A.Ş 📍 Ankara

- Inspected of incoming, process and final quality control processes.
- Managed of VDA 6.5 product audit processes.
- Made and updated control plans.
- Prepared of a PPAP (Production Part Approval Process) files.
- Followed up of 8D and CAPA's.
- Defected of nonconforming products and made NC documents.
- Calculated PPM for defect product analysis.
- Calculated cost of poor quality.
- Prepared of weekly and monthly reports.
- Made calibration plans and tracked the measurement devices that need to be calibrated.

Educations

2025-02 – Current

Master of Science: Quality and Conformity Assessment Engineering

Hacettepe University 📍 Ankara

2012-09 – 2018-02

Bachelor of Science: Mechanical Engineering

Selcuk University 📍 Ankara

GPA : 2.62/4.00

Language

English

Reading ★★★★★
Writing ★★★★★
Speaking ★★★★★

Certifications

2024-02

CCPMAM01 - Basic Project Management and Basic Agile Project Management Training
Arge Grup Danismanlik

2023-11

ISO 19011:2018 Internal Auditor Training
TUV Austria Turk

2022-12

SolidWorks
Gen Akademi

2022-08

Online Classroom Training on PV Module Standards
UL Solutions

2022-05

Photovoltaic Modules-Design Evaluation, Construction Features and Experimental Features
Theoretical Training
Turkish Standards Institution