RABOTA MD

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Inginer mecanic

32 years
Male
Chișinău

TOP Skills

- **Project Coordination (International Clients)** · *2 years*
- **Structural Calculations** · *2 years*
- **Steel Component Optimization** · *2 years*
- **Cold-rolled Steel Design** · *2 years*
- **Hot-Rolled Steel Design** · *2 years*
- **Ishikawa** · *2 years*

Preferences

- Full-time
- No schedule
- Flexible
- Part-time
- In-house
- Hybrid
- Remote

Languages

- **Romanian** · Elementary
- **Russian** · Don't know
- **English** · Fluent
- **Turkish** · Native
- **German** · Elementary

About me

Mechanical Engineer with expertise in mechanical design, project management, and product development. I specialize in guiding projects from concept to production, leveraging DFMEA, validation, and mass production processes in collaboration with cross-functional, international teams.

PATENTS

- Position Adjustable Hinge Structure – 2023-GE-81755 · Issued Aug 2024.
- Hinge Structure Optional Angle Mechanism – 2023-GE-47197 · Issued Aug 2024.
- Reinforcement Centering Cap – 2022-GE-869666 · Issued Jun 2024.
- Cabling Structure – 2022-GE-455496 · Issued Feb 2024.
- Door Cap Design to Simplify Grouping – 2022-GE-538435 · Issued Jan 2024.

PUBLICATIONS

- "Fatigue & De-tightening of Knuckle Connections Under Varying Conditions" – WOSCON, Nov 2024.
- "Development of an Aluminum Tie Rod Housing for Passenger Vehicles" – WOSCON, Nov 2024.
- "Enhancing Impact Resistance via Multiscale Structural Optimization" – ICENSTED, Aug 2024.
- "FEA and Topology Optimization Design for a Handle" – ICONSAD, Dec 2021.
- "Life Cycle Calculation of a Hinge Structure" – ICONSAD, Dec 2021.

INTERESTS

- Passionate about bartending and mixology, focusing on innovative recipe creation and developing a recipe book inspired by professional design principles.
- Enthusiastic winemaker, leveraging traditional family techniques to craft unique blends.

Work experience

Inginer de dezvoltare de produse · ZF Friedrichshafen AG (Izmir, Türkiye) · Chișinău

April 2023 - Present · 2 years 6 months

- Leading tie rod product development projects from concept design to SOP, focusing on customer specifications, automotive industry standards (e.g. IATF 16949), and performance targets.

- **Dutch** · Elementary

Driving licence

Category: B

- Managing engineering change management in materials, manufacturing processes, and supplier transitions to improve project efficiency and ensure on-time delivery.
- Collaborating with cross-functional teams across design, prototyping, product validation, and serial production stages.
- Interfacing with OEM customers and internal customers to align on design reviews, technical roadmaps, and design validation plans (DVP&R).
- Driving cost-effective R&D initiatives for chassis systems, focusing on innovation, weight optimization, and functional integration.
- Customizing mechanical components for enhanced steering performance, including hot/cold-formed steel parts where applicable.
- Optimizing tie rod designs for Electric Vehicle (EV) and Internal Combustion Engine (ICE) steering architectures, including platform modularity and packaging constraints.

Skills: Project Coordination (International Clients), Structural Calculations, Steel Component Optimization, Cold-rolled Steel Design, Hot-Rolled Steel Design, Ishikawa, GD&T, DVP&R, 8D Problem Solving, Six Sigma Methodology, Computer-Aided Engineering (CAE), Technical Drawings, Teamcenter, Enovia, CATIA V5, Dezvoltarea de produse

Inginer de proiectare și dezvoltare · Vestel Inc. (Manisa, Türkiye) · Chișinău

July 2022 - April 2023 · 10 months

- Managed the full product development lifecycle, including 3D/2D design, DFMEA, prototyping, technical documentation, BoMs, and DFMs.
- Designed specific components such as hinges, adjustable hinges, mullion bar structures, click-type handles, and fastening components using cold-rolled sheet metal and injection-molded plastic.
- Handled integration zones with electrical components such as Wi-Fi units, PCBs, sensors (e.g., humidity, heat), and structural interfaces for embedded systems.
- Collaborated with industrial designers, optical designers, and UI mechanics for mechanical-visual integration.
- Conducted patent research and designed the Position Adjustable Hinge Structure (patent no. 2023-GE-81755).
- Participated in global R&D meetings and international project coordination.

Skills: Project Support, Customer Relationship Management, Design Failure Mode and Effect Analysis (DFMEA), ANSYS Workbench, SAP Materials Management (SAP MM), Creo Parametric, 3D Modeling, PTC Windchill, BoM, D-log, Dezvoltare mecanică

Inginer proiectant mecanic · Vestel Inc. (Manisa, Türkiye) · Chișinău

March 2021 - July 2022 · 1 year 5 months

Managed the full product development lifecycle: 3D/2D design, DFMEA, prototyping, documentation, BoMs, and DFM.

Designed components such as hinges, adjustable hinges, mullion bars, click-type handles, and fastening parts using cold-rolled sheet metal and injection-molded plastics.

Led integration of mechanical and embedded systems (Wi-Fi units, PCBs, sensors like humidity/temperature) in coordination zones.

Collaborated with industrial designers, UI/optical engineers for mechanical-visual integration.

Developed patented components, including Position Adjustable Hinge (patent no. 2023-GE-81755), hinge covers, brackets, and caps.

Invented Reinforcement Centering Design (patent no. 2022-GE-869666), a centering cap solution that replaced costly reinforcement systems—cutting costs by 60%, eliminating labor-intensive steps, and improving alignment reliability.

Led mechanical testing, CAD design, prototyping, production transitions, and design verification.

Drove cost, quality, and efficiency improvements for existing products by implementing scalable and production-ready design solutions.

Participated in global R&D meetings and cross-functional international project coordination.

Skills: EN 1993-1-8, EN 1993-1-3, Material knowledge, Cold-Formed Steel Design (EN 1993-1-3), Cooling Devices Design(Refrigerator), Mass Production Process, Prototyping, Verification and Validation (V&V), Sheet Metal Design, Plastic Part Design, Injection Molding, Ansys Mechanical FEA Software, 3D Computer Aided Design (3D CAD), BoM, 3D-2D design, Proiectare și dezvoltare

Stagiar în Inginerie Mecanică · Turkish Airlines (Istanbul, Türkiye) · Chișinău

June 2018 - August 2018 · 3 months

R&D Design Development and Project Management Department (EASA.21J.418) / Cabin Interior Design Office

* Worked on cabin interior, galley, and other interior equipment and learned JAR/EASA CS-25 requirements.

* Supported drawings of emergency escape path markings and evacuation of transport category aircraft.

* Attended several CS 25 Appendix F Part-I Flammability tests at TSE (Turkish Standardization Institute).

* Supported the generation of test plans/reports, test specimens, and material characterization for flammability tests.

Skills: Biroul de Design Interior al Cabinei, Departamentul de Cercetare

Desired industry

- Engineering

Education: Higher