

Omer Can TIRAK

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PROFILE

Project Chief and System Design Engineer with 8 years of experience in automotive product development, plastic, sheet metal and advanced composite (CFRP) design, supplier management, and cross-functional project leadership. Currently working at Volvo Cars on rear opening systems for EX40, EX60 and Polestar 7, delivering robust, cost-efficient, and high-quality design solutions through 3D prototyping, tolerance alignment, and supplier collaboration. Expert in developing robust protective enclosures and structural components for high-voltage EV platforms. Combining technical precision with MBA-level leadership to drive innovation in energy storage systems.

WORK EXPERIENCE

DEVPORT AB

Gothenburg, SWEDEN

Professional Development & Internal Projects

May 2024 – Present

- Actively engaging in advanced technical training and professional development programs to deepen expertise in emerging automotive technologies and sustainable design practices.
- Supporting internal DevPort initiatives and knowledge-sharing workshops while preparing for upcoming strategic assignments.

VOLVO CARS

Gothenburg, SWEDEN

System Design Engineer – Rear Opening Team

July 2024 – January 2026

- Designed plastic components (spoiler, tailgate applique, camera bracket) ensuring environmental sealing (IP ratings) and structural durability for critical EV rear opening systems and later sheet metal components (inner tailgate, hinge reinforcement, bump stop reinforcement) for Volvo EX40, EX60 and Polestar 7.
- Contributed to lightweighting initiatives by developing carbon fiber (CFRP) reinforced component (tailgate applique and lamp applique) concepts for high-performance EV models, focusing on structural integrity and weight reduction targets.
- Coordinated 3D-printed prototype development with manufacturing engineering, improving assembly simulation accuracy and reducing iteration loops.
- Improved gap/flush and fixation robustness by collaborating closely with the Studio, Geometrical Dimension & Tolerance team, robustness engineers and body-in-white engineers.
- Managed suppliers across design, tooling, DFM/DFA, control fixture development, and pre-production builds, ensuring design feasibility and smooth industrialization.

STELLANTIS Group, FCA Fiat Chrysler Automobiles

Bursa, TURKEY

Project Chief – Exterior Trim & Vision

November 2022 - May 2024

- Led cross-functional development of exterior trim components for Alfa Romeo New Giulia, delivering ahead of schedule and below cost targets.
- Collaborated with function, product, style and material teams to optimize performance and achieve >20% cost reduction through design and process improvements.
- Contributed the development and cross-functional validation of high-end Maserati carbon fiber body kits, ensuring A-class surface quality and structural integrity under high dynamic loads for high-performance composite body kits.
- Managed validation activities, identifying issues early and driving corrective actions across suppliers and internal teams.

STELLANTIS Group, FCA Fiat Chrysler Automobiles**Bursa, TURKEY****Exterior Trim Design Specialist***May 2021 – November 2022*

- Achieved innovation and robust design solutions for exterior trim parts on three different vehicle platforms, offering technical expertise and contributing to project management.
- Successfully crafted and delivered 2D/3D models of exterior trim parts in the developmental phase for Alfa Romeo and FIAT vehicles, leading to the successful achievement of project milestones.
- Engineered complex carbon fiber (CFRP) door claddings for the Alfa Romeo Giulia project, managing the transition from style concepts to production-ready 3D models while adhering to stringent composite manufacturing constraints.
- Played a pivotal role in identifying and resolving critical issues related to exterior trim components through meticulous root cause analysis, contributing to continuous improvement efforts and reducing potential defects by 30%

TRI-WALL LIMITED**Bursa, TURKEY****Sales and Design Engineer***February 2019 – May 2021*

- Enhanced client satisfaction by delivering direct and daily service, leading to a notable increase in returning customers and regular order rates.
- Periodically meeting with customers about their needs and demands while improving product designs
- Designed over 110 unique products, expanding the client portfolio by 70% and increasing annual revenue by 11%.
- Expanded the portfolio of responsible customers from 26 to 44 in just one year, demonstrating exceptional industry knowledge and adept communication skills.

APTIV**Bursa, TURKEY****Product Engineer***September 2017 - February 2019*

- Designed and optimized wiring harnesses tailored to customer specifications, enhancing product alignment with market needs.
- Conducted comprehensive cost reduction studies, resulting in significant savings on materials and production processes.
- Engaged directly with customers in their plant environments, improving communication skills and understanding of client demands
- Led design innovations for three wiring harnesses, contributing to enhanced functionality and customer satisfaction

EDUCATION

Istanbul Technical University, Istanbul**Istanbul, TR***Bachelor of Science in Mechanical Engineering**Graduation: June 2017***Istanbul Technical University, Istanbul****Istanbul, TR***Master of Business Administration (MBA)**Graduation: January 2024***SKILLS & INTERESTS**

CAD & PLM: TeamCenter, CATIA V5/V6, Siemens NX, CREO, AutoCAD, Solidworks**Engineering:** Plastic, sheet metal & advanced composite (CFRP) design, DFM/DFA, GD&T, Tolerance Stack-up, Prototype development**Analysis:** Feasibility analysis, enclosure design (IP67/69K), design validation, thermal management integration, vibration & shock resistance**Business & Collaboration:** Supplier management, cross-functional communication, project coordination**Interests:** Scuba Diving, Work out, Travel, Skiing