

# Ahmet Geylani Tırak

## Senior Industrial Designer

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A multi-disciplinary designer with proven expertise in solving complex design challenges in diverse sectors.

An early technology adopter and a collaborative in-house entrepreneur driven by a results-oriented mindset.

[Portfolio Website](#)

[LinkedIn](#)

### EXPERIENCE

#### Owner & Multi-disciplinary Designer | AGTIRAK Design

ANTALYA, TURKEY | NOVEMBER 2023 - PRESENT

- Providing comprehensive design solutions in product design, VR design, and human factors and ergonomics.
- Bringing diverse experience in the defense, aviation, transportation and medical sectors, ensuring adaptability to a wide range of challenges.

#### Senior Industrial Designer | FNSS Defense Systems

ANKARA, TURKEY | MARCH 2023 - NOVEMBER 2023

##### ★ UX/UI Design (Vehicle Systems)

- Architected and managed a comprehensive design system for consistent user experiences across military vehicle interfaces.
- Established a modular design system enabling rapid adaptation to diverse vehicle types.
- Optimized UI/UX workflows through the integration of digital and physical interface design principles.
- Enhanced design decision-making by providing a MIL-STD compliance-driven design system and insights from user testing and feedback.

##### ★ VR Design and R&D Projects

- Pioneered the integration of virtual reality into the product development lifecycle for military vehicles.
- Conducted in-depth ergonomic assessments utilizing VR simulations and digital mock-ups.
- Fostered collaboration across design teams through VR training and integration initiatives.
- Created immersive VR experiences to enhance client evaluations and streamline approvals.
- Developed a Grasshopper-based tool to analyze and optimize vehicle body design and system configurations dynamically.

##### ★ Industrial Design

- Generated pioneering concept designs for future vehicles and weapon systems, exploring innovative form factors and functionality
- Led industrial design efforts for cutting-edge concept vehicles, including unmanned and hybrid platforms.
- Effectively communicated design concepts and solutions through drawings, 3D models, and high-quality renderings.

## Industrial Designer | FNSS Defense Systems

ANKARA, TURKEY | NOVEMBER 2020 - MARCH 2023

### ★ Human Factors and Ergonomics

- Conducted ergonomic evaluations of tracked and wheeled military vehicles for drivers and crew members.
- Performed ergonomics simulations on vehicle 3D models using Siemens Technomatix Jack, focusing on factors such as glass and periscope field of view, console and control access, embus/debus, and emergency evacuation.
- Collaborated with design engineers to ensure the integration of ergonomic principles into vehicle design.
- Contributed to the assessment of military vehicles' compliance with military standards such as MIL-STD-1472.

### ★ UX/UI Design (Vehicle Systems)

- Defined user experience flows and designed user interfaces for new systems integrated into vehicles, focusing on smart screen interactions.
- Created assets aligned with the visual language for new vehicle projects and developed vehicle visuals.
- Optimized vehicle usability and functionality by designing user-friendly and functional interfaces.

## Industrial Designer | Freelance

ANTALYA, TURKEY | JUNE 2019 - NOVEMBER 2020

- Delivered industrial design and consulting services to prominent clients.
- Partnered with established industrial design firms to offer collaborative design solutions.

### ★ Noteworthy Projects:

- Developed a portable wireless control panel for Aselsan.
- Designed an autonomous unmanned ground vehicle for Havelsan and Tekatron.
- Created a user-centric Diabetics EDC (Every-day Carry) Set for MUB Medical.

## Industrial Designer | Element Product Design

ANKARA, TURKEY | AUGUST 2018 - JUNE 2019

- Undertook the industrial design process for diverse projects commissioned by leading companies.
- Guided design direction from conceptualization to CMF (Color, Material, Finish) selection, ensuring alignment with project requirements.
- Actively participated in client meetings and presentations, communicating design concepts.
- Oversaw the prototyping of designs, utilizing techniques such as metal sheet bending, CNC routing, and 3D printing.

### ★ Noteworthy Projects:

- Designed a Drone-catcher Unmanned Aerial Vehicle (UAV) for Altinay.
- Developed UAV-mounted Imaging Systems for Altinay.
- Created a Naval/Land Missile Launching System for Roketsan.
- Designed a Remote Missile Control System for Roketsan.
- Developed a Remote Weapon Control System for Aselsan.
- Designed a Tractor-mounted Garden Sprayer for Ontar.

## EDUCATION

### Bachelor of Industrial Design | TOBB University of Economics and Technology

ANKARA, TURKEY | SEPTEMBER 2013 - SEPTEMBER 2018

- GPA: 3.36/4.00
- Graduated as top 3rd of class

## SKILLS

### Design and 3D Modelling

Fusion 360  
Rhinoceros 3D  
Grasshopper  
Solidworks  
Catia  
Blender

### Visualization and User Interface

Keyshot  
Figma  
Adobe XD  
Adobe Photoshop  
Adobe Illustrator

### Prototyping and VR

3D Printing  
Siemens Technomatix Jack  
KeyVR  
Unreal Engine  
Gravity Sketch

### AI Tools

Stable Diffusion  
DALI 3  
Vizcom  
Gemini

### Soft Skills

Early Adopter  
Problem-Solving  
Self-Motivated  
In-house Entrepreneur

Client Communication  
Teamwork Collaboration  
R&D Project Management

## REFERENCES

### Gokhan Keman

Industrial Design Unit Manager,  
FNSS

### Ozgur Ulvan

Industrial Design Manager,  
Aselsan

### Tolga Yasar Yilmaz

Human Factors Engineering  
Expert, ASML

## ACHIEVEMENTS

### Industrial Design Registration Certificates 2023

Kaplan Hybrid Vehicle  
25 mm Light Turret  
TEBER35 Turret  
SABER25 Turret  
Kaplan Hybrid UI Design

### Industrial Design Registration Certificates 2022

Medium Weight Tank  
8x8 Special Purpose Vehicle  
6x6 Special Purpose Vehicle

## LANGUAGES

**Turkish** | Native

**English** | Advanced

**Russian** | Elementary