Furkan Utku Nalbant

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High school student with a research project in polymer-based biomedical materials, aiming to study materials science and sustainable technologies. Licensed basketball player since age 8 and wildlife photographer.

Education

Sivas Cumhuriyet University Foundation Science High School (Özel Sivas Cumhuriyet Üniversitesi Vakfı Fen Lisesi), Sivas, Türkiye · 2025 – present

- Attending on an athlete scholarship and a merit-based school scholarship
- Focus: mathematics and natural sciences
- GPA: above 96 / 100

Research

Production of Hernia Meshes: Obtaining Polyurethane Acrylate via UV Polymerization and Antimicrobial Coating with Benzalkonium Chloride

TÜBİTAK 2204-A High School Students Research Projects · submitted 2026 · team member

- Develops porous hernia mesh prototypes from biocompatible polyurethane acrylate (PUA) using UV polymerization and templating to control pore size and distribution
- Applies a benzalkonium chloride antimicrobial coating by dip-coating to reduce surgical infection risk
- Evaluates antimicrobial effectiveness by culturing samples on Tryptic Soy Agar and Sabouraud Dextrose Agar
- Result / stage reached: [add, if any]

UV curing experimental project, school project group · 2025 – present

- Hands-on group work in a school laboratory setting, focused on UV curing and testing

Athletics

Licensed basketball player, Cumhuriyet University Foundation College Basketball Club (CVK) youth teams · age 8 – present

- Won championships and medals in the U11, U12, U14 and U16 categories: 3 first-place and 2 second-place finishes
- Position: point guard (PG); plays in the Sivas league
- Student at the Kaan Karasu Basketball School

Activities

Wildlife and bird photography · 2022 – present

- Photographs birds and nature with a Canon 60D and Canon EF 400mm f/5.6 lens, and shares the work on Instagram
- Exhibited photographs at the Animal Protection Day exhibition on 4 October 2026 (CUVK)

Theater and drama projects · CUVK, 2025

- Takes part in school theater groups and drama projects

3D design and printing

- Creates STL models in beginner-level 3D software from micrometer-caliper measurements and prints them on 3D printers

Skills and languages

- **Languages:** Turkish (native); English (B1)
- **Technical:** 3D modeling (beginner), 3D printing, precision measurement with a micrometer caliper, UV polymerization and antimicrobial coating methods (project work)
- **Personal:** teamwork from competitive basketball and group research; international travel for language practice