

LOCATION
Eindhoven, The Netherlands

POSITION
Mechanical Design & Control Engineer

JOB CATEGORY
Full-time

DEGREE
MSc in Mechanical Engineering, Mechatronics,
Control Engineering (or similar)

About us

Aircision is a deep-tech startup on the High Tech Campus in Eindhoven and a spin-off of TNO. We build free-space optics (FSO) terminals that send data through the air on laser beams, delivering fiber-like speeds over several kilometers. Our technology is dual-use, serving both civil and defense applications. Together with TU/e, we recently set a world record for optical wireless data transmission. We are a small, hands-on team where your work directly shapes our products.

The role

You will work on both the mechanical design and the control systems of our mast-mounted FSO terminals. You will collaborate closely with our optics, electronics, and embedded software team members, supported by a project manager, a system architect, and an experienced mechanical expert.

You will:

- Design, improve, test, and integrate the control systems that power our FSO technology
- Work hands-on with linear systems, feedback control, filtering/estimation, and system identification
- Bring your control algorithms into a real-time communication product, together with our embedded software team
- Develop and detail mechanical designs in Autodesk Fusion, integrating PCBs, optics, and cabling, with attention to thermal, structural, and vibration constraints
- Validate designs with calculations, simulations, and tests

Your profile

- Master's degree in Control Engineering, Mechanical Engineering, Mechatronics, or a related field, preferably with 1–2 years of experience
- Solid knowledge of control theory
- Experience with MATLAB and Simulink is preferred
- Able to read and understand C++ and Python code
- Hands-on experience with Autodesk Fusion (SolidWorks or Inventor also considered)
- Good communicator in English who enjoys working across disciplines
- You like the startup mood: fast pace, initiative, and a good vibe in the team
- Available to start at short notice

If this sounds like you, we'd love to hear from you! Please note: You **MUST** have EU or NATO-member country citizenship.

Please forward your CV and covering letter to:	career@aircision.com 
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