Dahlia Robotics

Mechanical Design Engineer (m/w/d) at Dahlia Robotics GmbH

Build and deploy hardware to help robotic farming machines succeed.

About Dahlia Robotics

Dahlia Robotics' vision is to remove the need for herbicides in agriculture and make organic food production the standard.

To achieve this, we build farming machines which take care of tedious tasks like weeding. Our machines automatically recognize crops and weeds on the field through computer vision and machine learning techniques and remove the weeds through mechanical tools.

We are a multidisciplinary team with various backgrounds, supported by local farmers.

Our company is located in GATE Garching, next to the technical university of Munich (TUM).

Job Description

As a core team member of our company you will design and overview the manufacturing of the mechanical side of our machines. You will be in charge of designing, testing and iterating on existing and new constructions as well as designing and optimizing for manufacturing the mechanical parts of our machines. Your work will include:

- Hands on validating system performance together with software and electrical engineers
- Producing CAD models of your designs in Solidworks
- Prototyping your designs in a workshop
- Testing the designs in field deployments
- Overviewing the fabrication of the mechanical parts you designed

Skills required

- Master (or comparable) in mechanical engineering or a related field
- Strong fundamentals: including mechanics, materials, tolerances, and design for reliability
- Proficiency in SolidWorks (or comparable): 3D modeling, assemblies, engineering drawings
- Experience designing for manufacturing and assembly (DFMA), with an understanding of how design decisions affect cost, quality, and manufacturability
- Hands on experience troubleshooting mechanical issues
- Ability to create professional constructions, drawings and manufacturing instructions
- Exposure to different manufacturing methods of mechanical components
- Willingness to work on field deployments
- Proficiency in English

Beneficial

- 2+ years of practical experience in industrial or automotive mechanical design
- Interest in software, electronics, and system integration
- German language skills
- Experience with automotive hardware design
- Experience working with suppliers, fabrication partners, or contract manufacturers
- Interest in agriculture (organic and conventional)
- Driver's license (German class B or equivalent)
- Understanding of certification requirements (e.g. Produktsicherheitsgesetz)

Contact

Please send your application via email to mech-engi@dahliarobotics.com - By sending your application you confirm you have read, understood and agreed to the GDPR provisions described in https://dahliarobotics.com/datenschutzerklarung/