

Product Development Engineer- Robotics

Join the world leading Robotic Crawler **OEM** VertiDrive, right from the heart of **Rotterdam**'s Makers District at **RDM**, in a young and vibrant team to jointly develop the future of on-site surface processing robotics!

As a Product Development Engineer at VertiDrive, your role is to successfully conceptualize, design, engineer, develop, test and handover to operations, new or improved VertiDrive Robotic parts and solutions, conforming to customer needs and requested specifications.

Role & Responsibilities:

- ✓ Solidworks 3D modeling / designs creation.
- ✓ Mechanical engineering & design.
- ✓ Mechatronic engineering.
- ✓ Outsourcing & supervision of electronic & software engineering.
- ✓ Design and CAD draw according to standards, norms and templates.
- ✓ Keep track of global state-of-the-art and developments in mechatronics, robotics, control, automation and sensory in order to continuously evaluate applicability opportunities in VertiDrive products.
- ✓ Use of accepted engineering norms and standards, in order to secure the right engineering quality levels.
- ✓ Knowledge of industry relevant and specific norms, regulation and guidelines (e.g. Machine directive, ATEX, IEC-EX, CE, SIR, ea.)
- ✓ Select, use, (co-)develop test methods and test equipment, used to perform durability or performance.
- ✓ Testing of products, modules or parts if needed under different harsh environments.
- ✓ Modeling of product, module or part behavior (FEM, CFD. or other) for product (design) performance and optimization purposes.
- ✓ Assure quality and safety of all designs, resulting products and used methods.
- ✓ Create product, module and part specifications.
- ✓ Make cost calculations and control agreed budgets.
- ✓ Evaluate manufacturing methods / opportunities with potential suppliers.
- ✓ Define relevant specifications and demands towards manufacturers and sub-suppliers of Parts.

Qualifications:

- ✓ Higher vocational education level in knowledge and work level.
- ✓ Some years of experience in mechatronic and/or mechanical design engineering environment.
- ✓ Knowledge and experience in Solidworks and ERP solutions.
- ✓ Prepared to travel, e.g. to visit potential suppliers and/or customers for field testing and product performance feedback purposes.
- ✓ Knowledge of industry specific norms and regulations.
- ✓ Scientific reporting skills.
- ✓ Dutch and English in word and writing.