



NFORCER FUMO

Assignment

The goal of the assignment is the development of an nForcer FUMO and qualification tool in order to prove the performance specifications and optimize the design of the system. The assignment comprises multidisciplinary aspects such as mechanical design, metrology, thermal analysis, dynamics and control. System accuracy is in the μm domain.

Activities

- Risk assessment to define the critical parts of the nForcer
- Requirement specification for FUMO hardware and qualification tooling
- Design of the FUMO & qualification hardware
- Proof of the feasibility of the FUMO and qualification tooling

Context

Sioux Technologies is currently developing a high dynamical, high accuracy planar motion system; the nForcer. The nForcer will be used as a motion system in the semiconductor industry, e.g. as part of a wafer inspection unit. A preliminary conceptual design of the nForcer has been developed in the past year. To show the feasibility of the nForcer concept, a functional model (FUMO) and a qualification tool need to be developed. These must be able to evaluate all the critical items of the nForcer.

Internship overview

- Master Student
- Graduation Assignment
- Mechanics
- Location: Nuenen

Technologies

- High-tech Design Principles
- Risk assessment
- FUMO



Why choose Sioux?

- Working on innovative technology
- Challenging, dynamic and varied work
- A comfortable and personal work environment
- Plenty of opportunities for personal development
- Great career opportunities
- Contributing to a safe, healthy and sustainable society

Get in touch!

Would you like to know more about this student assignment?

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