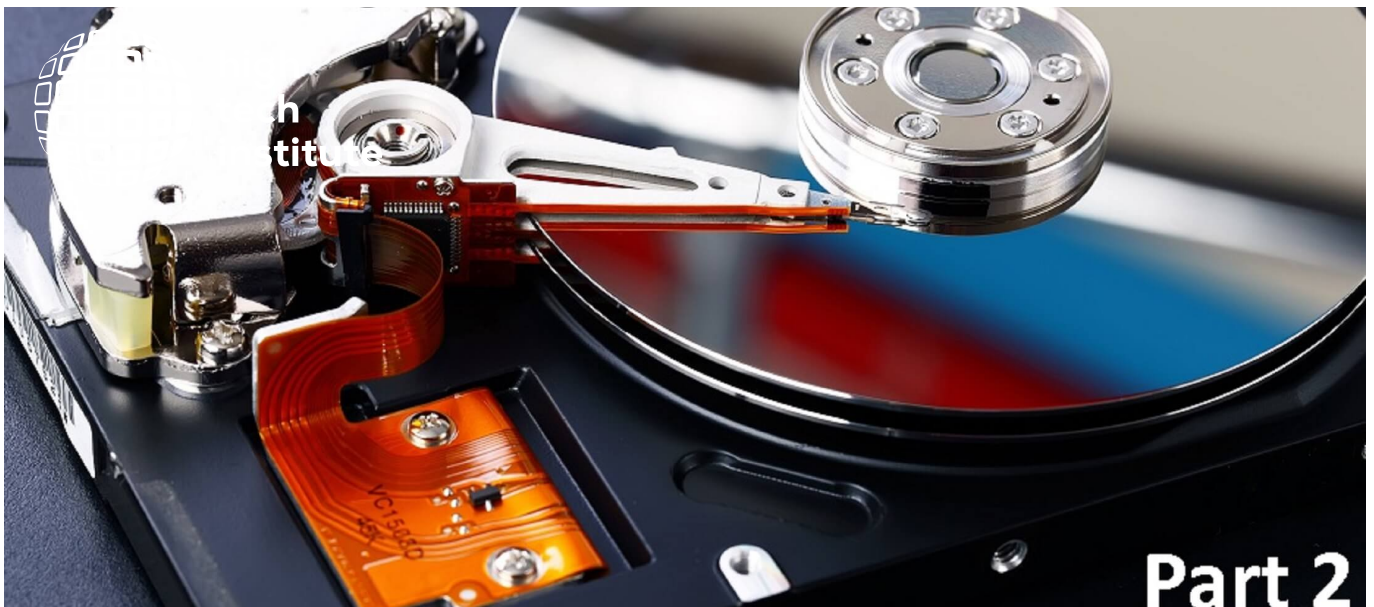


TRAINING BROCHURE

Training Mechatronics System Design - Part 2



[Provisional reservation >](#)

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Mechatronics System Design - Part 2

Price: € 3,970 excl. VAT *

Duration: 5 consecutive days

Contact: training@hightechinstitute.nl, +31 85 401 3600

Score: 8.7 ★★★★★☆

Intro

Part 2 of the course 'Mechatronics system design' focusses on the essential basics in any multi-disciplinary development of mechatronic (motion) system. In this applied mechatronics training, participants will acquire broad technical knowledge beyond the limits of their own discipline.

What makes this training unique:

- The leading training with over 2000 enthusiastic participants.
- Mix of well-known university professors and industry experts.
- Variety of practical experiences and lessons learned from multiple application areas.
- Recommended by euspen & DSPE (European/Dutch Society for precision engineering).

This training is available for open enrollment as well as for in-company sessions.

Objective

After completion of the full course 'Mechatronics system design', the participants will be able to make a more effective contribution to the realization of mechatronic constructions because they will have a better understanding of adjacent disciplines (terminology, basics, solution space, challenges, ...) and the interdependencies between disciplines.

Target audience

This course is intended for architects, designers, engineers and project leaders with various technical background who are involved in the multi-disciplinary development of products/devices or equipment.

Prerequisites: Technical education (BSc or higher) and completion of the course 'Mechatronics system design - part 1'.

The course attracts participants from both the Netherlands and abroad, creating an international atmosphere that fosters valuable knowledge exchange. If you're traveling from outside the country, you can find useful travel information [here](#).



Certified by



Certification

This course is certified by the European society for precision engineering & nanotechnology ([euspen](#)) and the Dutch Society for Precision Engineering ([DSPE](#)) and leads to the [ECP2-certificate](#).

Course leader

[Dr. Adrian Rankers](#)

Trainers

[Prof. Hans Vermeulen](#)
[Dr. Adrian Rankers](#)
[Rik van der Burg MSc](#)
[Prof. Jeroen van Duivenbode \(ASML & TU/e Fellow\)](#)
[Dr. Leon Jabben](#)
[Michiel Vervoordeldonk MSc](#)
[Nico Meijerman MSc](#)

** Prices are subject to change. Price correction will be applied at the end of the year.*

Keep me posted



Program

- Introduction & recap
- Exercise modeling and simulation (20-Sim)
- Dynamics & implications on control design
- Electromechanics/power electronics
- Analog Electronics
- Control system architecture/development
- Dynamic Error Budgetting
- Thermal effects in mechatronic systems
- Metrology & Calibration
- Exercise (digital) control design on test setup
- Software in mechatronic systems
- Case 1: Compact disc player
- Case 2: Wafer stepper/scanner

Frequency

Once per year

Read the interview:



Remarks from participants:

- "Most important items I have learned: Relationship between control loop and mechanics." > Danny Vonk , ASML
- "Very nice to learn about a wide range of aspects from field experts." > Gijs van der Veen , TU Delft/MI partners
- "High quality content, subject & teachers!!! Nice location & food." > Anonymous , Heidenhain