Mechatronics system design - part 2

This training starts on: 09-10-2017

Location:	Eindhoven
Price:	2.995,00 euro excl. VAT
Duration:	5 consecutive days
Contact:	training@hightechinstitute.nl, +31 85 401 3600

Overview

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).

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'.

Objective

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

Programme

- Introduction & recap
- Exercise modelling and simulation (20-Sim)
- Dynamics & implications on control design
- Electromechanics/power electronics
- Analog Electronics
- Control system architecture/development
- Humanware (DISC)
- 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

Partner

Mechatronics Academy B.V.

Certified by

Euspen

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 leaders

Dr.ir. Adrian Rankers

Prof.dr.ir. Jan van Eijk

Teachers

Dr.ir. Adrian Rankers

Prof.dr.ir. Jan van Eijk

Ir. Jaco Friedrich

Dr.ir. Theo Ruijl

Ir. Michiel Vervoordeldonk

Dr.ir. Joost Bolder

Dr.ir. Pieter-Jan van Bommel

Ir. Rik van der Burg

Prof.ir. Robert Munnig Schmidt

Ir. Rick van der Maas

Timetable

09-10-2017 | 09:00 - 16:30

10-10-2017 | 09:00 - 16:30

11-10-2017 | 09:00 - 16:30

12-10-2017 | 09:00 - 16:30

13-10-2017 | 09:00 - 16:30

Information is subject to change. Please contact The High Tech Institute for the latest course information and time schedule.