



Master's Degree Program Automotive Embedded Software

General information

Requirements: Bachelor's degree (preferred in Engineering)

Duration: 4 semesters (3 semesters coursework + 1 semester thesis)

ECTS credits: 120

Teaching language: English

Mission statement

The mission of the Master's Degree Program in AUTOMOTIVE EMBEDDED SOFTWARE (AES) is to provide students with advanced knowledge in the field of automatic systems engineering applied to automotive embedded software. The AES Master's graduates offer complete solutions to practical problems in the development of embedded systems applicable to the automotive field.

Competencies and knowledge acquired

- Problem definition, solution identification and project management of embedded systems.
- Application of testing and diagnosis models and of quality engineering principles to software applications implemented in embedded systems.
- Development of hardware and software applications for automotive systems using up-to-date informatics technologies.
- Innovating solving of core problems in inter-disciplinary co-operation and team-working.

Courses

- Embedded Systems.
- Software Project Management.
- Dynamic Systems and Stability in Automotive Control.
- Data Communications and Applications to Automotive.
- Basic Application Know How.

Why Automotive Embedded Software?

The AES Master's graduates know both the theoretical background of the field and the possibilities and methods of practical applications in order to offer complete solutions to practical problems in embedded systems. They know and understand a wide range of technical applications, and they master advanced skills and competencies in the design and implementation of embedded applications dedicated to high complexity automotive systems.

Career opportunities

Since the Master's Degree Program in AES is characterized by thoroughgoing study, the AES Master's graduates acquire a higher understanding of the problems specific to the field. Therefore the AES Master's graduates to get high paid and high satisfaction jobs in activities that involve the leading and management of complex tasks in the field, and the inter-disciplinary co-operation ones as well.

In addition the AES Master's graduates acquire certain innovation and research skills. The support is offered by the research results of the teaching staff in AES that are useful to the graduates accounting for the needs of the companies focusing on the research and development of new products.

Contact

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