

A man with dark hair, wearing a grey zip-up hoodie over a blue and white striped shirt, stands in front of a presentation screen. The screen displays text including 'n-Vehicle Net', 'Ethernet', and 'arking'. The background shows a modern office interior with desks and chairs.

// I'M DESIGNING A LANE-KEEPING SYSTEM FOR NXP SEMI- CONDUCTORS //

Rameez Ismail, PDEng trainee
Automotive Systems Design

PDEng program

**AUTOMOTIVE SYSTEMS DESIGN
(ASD)**

TU/e PDEng programs

Are you about to receive your master's degree, but are you not quite done learning? Are you ready to sink your teeth into a high-tech project of your own? Join one of the Professional Doctorate in Engineering (PDEng) programs at the Eindhoven University of Technology (TU/e). You will become an expert in high-level technological design and gain valuable work experience in the R&D departments of leading high-tech companies. In this brochure, you will learn more about the Automotive Systems Design (ASD) PDEng program.

About Automotive Systems Design (ASD)

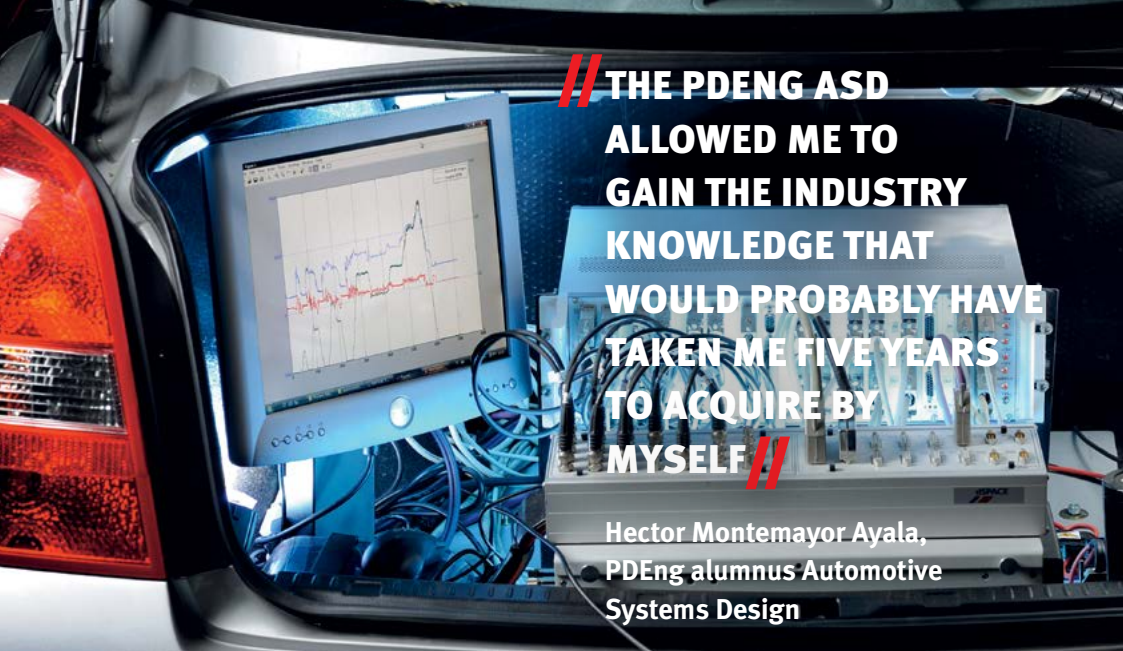
The automotive industry is rapidly changing into a high-tech sector facing huge challenges in terms of multidisciplinary product and process engineering. The trend towards smart components and systems is a strong driver for the Dutch automotive sector and requires new generations of engineers with additional skills and training. As a technological designer, you can have the rewarding task of translating new ideas and plans into automotive system designs. The Automotive Systems Design program will give your career in high-tech automotive a kick-start. In the program you focus on strengthening both your technical and non-technical competencies relating to efficient, effective design and development of technologies and applications for modern high-tech automotive systems.

PROGRAM STRUCTURE

ASD is a two-year, full-time PDEng program. You will be registered as an employee of TU/e and receive a salary and an attractive benefits package. Upon completion of the program, you will be awarded the Professional Doctorate in Engineering (PDEng).

Courses

During the first 14 months you learn new technologies and broaden and deepen your knowledge of automotive technologies. You spend about half your time following courses and workshops, supervised by lecturers who have several decades of worldwide design experience with high-tech companies. The lecture program is structured to provide the solid background needed with industrial projects, including system engineering and technological design methods and tools.



**// THE PDEng ASD
ALLOWED ME TO
GAIN THE INDUSTRY
KNOWLEDGE THAT
WOULD PROBABLY HAVE
TAKEN ME FIVE YEARS
TO ACQUIRE BY
MYSELF //**

**Hector Montemayor Ayala,
PDEng alumnus Automotive
Systems Design**

Training projects

The other half of your time is spent working on projects (real problems) from industry that are assigned by industrial partners, including well-known international companies such as DAF, TNO, ESA, VDL, and NXP. During these training projects you work in teams as is common in industry. You solve problems and develop innovative solutions meeting industry standards. You master all the aspects of teamwork, supported by non-technical courses and professional development.

Design project

You spend the last ten months in industry working on an individual, challenging and innovative technological design project – a real problem that needs a solution. This project will integrate a number of (sub-) disciplines. You're supervised by

engineers from industry as well as by university staff. This way you're supported by scientific knowledge, practical design experience and project management expertise.

AFTER YOU GRADUATE

With a PDEng degree from TU/e, you are set to make an excellent start in the labor market. It would take many more years to gain the same experience in industry, if possible at all. The depth and experience you have gained through your course work and projects gives you a distinct advantage compared to university graduates. ASD graduates generally find a job in challenging, highly competitive industrial environments, both in The Netherlands as abroad.



Program summary

- Program workload: Full-time
- Degree: Professional Doctorate in Engineering (PDEng)
- Language: English
- Start time: November
- Duration: 2 years
- Salary: 1828 € per month

More information

ASD is open to graduates with a relevant MSc degree, comparable to a degree from a Dutch technical university. Acceptance in a TU/e PDEng program is on an application basis. Key qualities in the selection are excellence, motivation, ambition, (English) communication skills and critical thinking. Interested in applying? Read more at www.tue.nl/asd.

About TU/e

- Leading in engineering, science & technology
- High-quality research and education
- Excellent modern facilities
- International community of more than 80 nationalities
- Friendly, open culture
- International network with prominent universities and institutes
- TU/e alumni in high demand among employers
- Strong position in Brainport Eindhoven, the Dutch high-tech region