Innovations made possible by embedded systems are making our lives healthier, interesting, safer and more sustainable. Examples of systems in which embedded systems play a crucial role are: smart phones, medical equipment, cars, traffic control, airplanes, robots, etc. These innovations are at the heart of industrial innovation and competitiveness, creating and sustaining jobs and economic well-being.

The TU Delft Master of Science Programme in Embedded Systems focuses on the design methodology of hardware and software user environments. It covers a wide spectrum of topics ranging from integrated circuit design, computer architecture, communication networks, machine learning and real-time operating systems to software engineering and formal methods for embedded applications. As an essential component in the inexorable process of miniaturisation, it is an exciting engineering science of the future.

**Programme**
Within the Embedded Systems programme you will obtain basic knowledge through courses on computer architectures for embedded applications, formal verification and real-time operating aspects. By means of a team project you will experience how all these parts come together when designing an embedded system in practice. Depending on your interest, you will learn more about topics like IC design, heterogeneous computer platforms, network security, wireless sensor networks, internet of...
Master’s Thesis

The Thesis project is the last study unit of the programme and serves to prove that you acquired the academic competencies of a Master of Science in Embedded Systems. The project involves a research or design task with sufficient academic level. The project may be executed within a research program at TU Delft, or in a suitable research institute or company.

Some examples of recent graduation projects are:
- Communicating Embedded Networks with Visible Light Communication.
- Delfi-n3Xt’s Attitude Determination and Control Subsystem: Implementation and verification of the hardware and software.
- A Cow-Feeding Robot.
- Indoor Localization and Tracking of Mobile Objects in a Healthcare Facility.