



Courses

- Embedded computing
- Digital design
- Hardware platforms
- Embedded software
- Real-time systems
- Algorithms for embedded systems

- Embedded systems design

- Cognitive systems
- Wireless sensor networks

- Low-power design

- Control theory

- Control algorithms

- Architectures for software systems I,
Carnegie Mellon

- Hardware and software co-design

- Re-programmable systems

- Embedded systems security

- Distributed systems and computer
communications

- Digital signal processing

- Dependable systems

- Architectures for software systems II,
Carnegie Mellon



There are different ways to advance in
Embedded Computing



Join us at New Bulgarian University



New Bulgarian University

EMBEDDED SYSTEMS

MASTER PROGRAM

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Embedded systems

An embedded system is a computer within a host device, when the host device, itself, is not generally considered to be a computer. The computers within cars, mobile phones and digital cameras are typical embedded systems. Real-time behavior is the defining characteristic of embedded computers. The timing constraints arise through the two ways that computational process interact with the physical world: reaction to a physical environment and execution on a physical platform. Embedded computers are widely used, with billions sold every year. The embedded systems market size is about 100 times the desktop market.



Application

Applicants must have a Bachelor degree – at least three years of full-time studies. A one-semester introductory module is available for students who lack previous experience in Computer Engineering.

Duration

The typical schedule is spread over two academic years.

Teaching methods

Each semester you select five courses out of seven. Teaching is based on formal lectures, practice with design and development tools and projects.



Official language

English

Diploma

The Master of Embedded Systems diploma is awarded by the New Bulgarian University.

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