



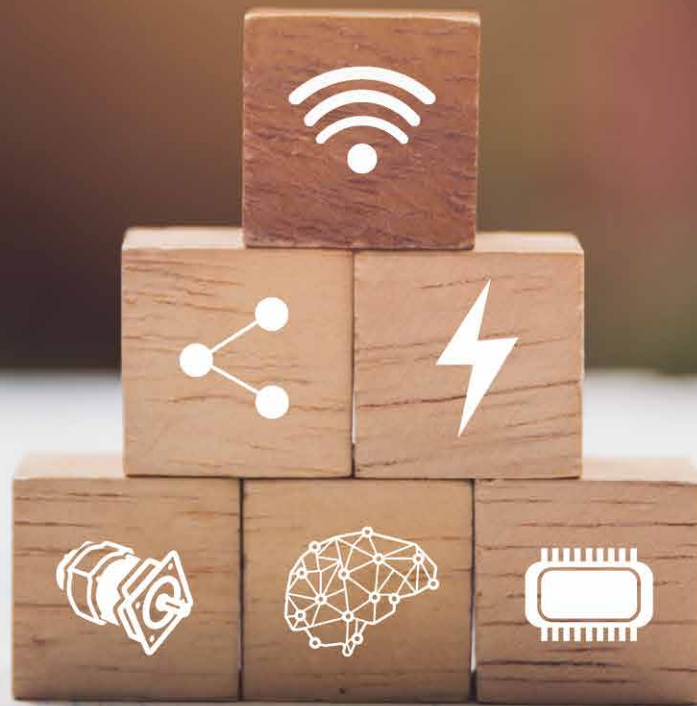
**STEM your way**  
Innovation depends on you

# System Development with STMicroelectronics

## How to design an electronic system based on a microcontroller

The online course offered by ST to university students

**Lessons  
from March to June 2024**



STMicroelectronics is offering an online theoretical and practical course to university students, valid for the acquisition of Crediti Formativi Universitari (CFU) <sup>(#)</sup>

Lessons will be held in English from March to June 2024.

<sup>(#)</sup> the CFU value is agreed with universities and relates to the second part (Part II) of the course

### Part I (\*): 8 hours

Offered to all STEM students (Bachelor's and Master's Degree)

ST at a glance

Electronic systems

Introduction to microcontrollers

Embedded systems - programming basics

MEMS sensors overview

Motor control algorithms

Artificial Intelligence on the edge

Join us! Meet ST Human Resources

### Part II (\*): 25 hours

Offered to students of Master's Degree courses in STEM domains

ST at a glance

Semiconductor manufacturing

STM32: family overview and main peripherals

STM32 ODE overview: Nucleo, X-Nucleo, Function Packs

STM32: programming tools

STM32: practical examples

MEMS sensors: practical examples

Electric motor and actuators: introduction and practical session

Energy-autonomous and maintenance-free wireless sensor node

Deep learning & STM32Cube A.I.

Join us! Meet ST Human Resources

(\*) The program may be subject to variation according to feedback from professors.

Don't miss this valuable training experience from one of the world's leading companies in microelectronics and semiconductor production.  
Stay tuned on: **[www.st.com/system-development-training](http://www.st.com/system-development-training)**

