

Workshop/Hackathon on Internet of Things with Intel Galileo Boards



June 10, 2014, Bologna, Italy

School of Engineering, Università di Bologna
Viale Risorgimento 2, Bologna
Room 0.5

The Workshop will deal with the **Internet of Things**, providing skills and knowledge about the topic and the opportunity to program real boards in order to develop an IoT project. One of the objectives of the Workshop will be to motivate participants to start a real project dealing with IoT, using the Intel Galileo boards, **Arduino** compatible (see <http://www.intel.com/content/www/us/en/do-it-yourself/galileo-maker-quark-board.html>). However, technically, software skills like Node.js and embedded linux can be reused in lots of other projects, therefore the Workshop is not only about Arduino (<http://intel-software-academic-program.com/pages/courses#iot>). But more importantly, IoT is a great opportunity to develop creativity and project management skills far beyond software development.

The Workshop will include some presentations on IoT and on the boards, a brainstorming session, where participants will discuss and will invent the IoT application to be developed and an hands on session (the full afternoon) dedicated to the implementation of the project.

The Workshop will be given by an **Intel Software Engineer** and it is targeting Master students, PhD students, researchers and professional developers, interested in the IoT topic.

Local Organizers: Chiara Buratti, Roberto Verdone

Registration:

To register to the event send an email to Chiara Buratti, c.buratti@unibo.it

Registration deadline: May 1st.

No registration fee is requested

Schedule

9.00	Welcome
9.00 – 10.00	“The Internet of Things Paradigm”
10.00 – 10.30	“Galileo boards Arduino compatible”
10.30 – 11.00	Break
11.00 – 11.30	“Galileo boards Arduino compatible”
11.30 – 12.30	“Brainstorming Session”
12.30 – 14.00	Lunch break
14.00 – 18.00	“Hands on Session”
18.00	Closure

Description

Presentation about Internet of things context, paradigm and solutions.

Technical presentation on Intel Galileo: Practical skills required to start developing the project will be provided. Some Open Source course material is already available at <http://intel-software-academicprogram.com/courses/#iot>

Brainstorming Session: people will be divided in small groups to propose innovative IoT projects. IoT requires imagination, not only skills. We are providing mentoring from an Intel engineer to help you find great IoT projects.

Hands-on Session. During this session participants will develop their project by programming the Galileo boards. Some equipment for the boards will be also available: sensors, motors and other accessories to go with the boards and to build real solutions.

Skills

Participants interested in coding can do so in various languages, from Arduino sketches to anything running on linux like C/C++, Java, node.js. Node.js is based on javascript and a very popular choice for IoT. More details on the technical side of things from <http://intel-software-academic-program.com/courses/#iot>