
IEEE STMicroelectronics INTERNSHIP INITIATIVE

STMicroelectronics is a world leader in providing the semiconductor solutions that make a positive contribution to people's lives, today and into the future. Offering one of the industry's broadest product portfolios, STMicroelectronics serves customers across the spectrum of electronics applications with innovative semiconductor solutions for Smart Driving and the Internet of Things. By getting more from technology to get more from life, STMicroelectronics stands for *life.augmented* (visit www.st.com for more details).

Advanced System Technology (AST) is a system R&D organization established to address the need of the Company to increase system know-how and to scout new technologies. AST is looking to highly motivated, high potential students to fill a number of internship position and be involved on break-through, exciting, and innovative R&D projects. Here a short list of the main themes proposed:

- 1) Intelligent Cyber Physical System (i-CPS) for heterogeneous sensing. CPS is a network of interacting computing systems, each one capable to measure a single physical quantity (e.g. temperature, acceleration, etc). The objective is to bring break through cognitive intelligence inside them.
- 2) Embedded Deep Neural Vision. In the last few years, deep learning and in particular convolutional neural networks emerged as the state of the art in terms of accuracy for a number of computer vision tasks such as image classification, object detection and segmentation. The challenge is to bring them into embedded systems in an innovative way achieving ultra low power consumption.
- 3) Intelligent camera for 3D reconstruction. Dumb vision camera are becoming rapidly obsolete. A new generation of them is emerging and capable to measure distances and locate in space and time by themselves for innovative robotic systems that will be at the core of the 4th industry revolution

Internships may take:

- 1) Up to 12 months for undergraduate MSc and PhD students
- 2) 6 months for graduated MSc

We look to very interested students, well committed to the project until the end of the internship period that will be regulated by a contract. The candidate has to be knowledgeable in C/C++ and python languages. Knowledge on Linux OS required. It shall have attitude to work diligently in a team of experts and with reliability. Education in Software, Mathematic Engineering and Computer Science is strongly required.

STMicroelectronics accordingly to his rules will offer salary that will be discussed during the formal interview. Language requirements are English or Italian.

For more information please contact

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