

## **Faculty Exchange Program - Carnegie Mellon | Portugal**

Activity report from Vítor Grade Tavares for the Fall'10 Faculty Exchange Program.

The visit to Carnegie Mellon University had two major components. One more directed to curricular activities and the other research oriented.

Curricular activities were accomplished by teaching a few lectures of 18-623, a graduate course on Analog Integrated Circuit Design, lectured by Dr. Larry Pileggi. From this experience it was possible to understand the common practices and course organization at this level. A contact with Dr. Donald Thomas was also very important to understand the undergrad degree track.

Within this period, the curricula of “Microelectronic and Micromechanical Technologies - MMT”, a course from the Doctoral Program at the Faculty of Engineering of University of Porto, is being revised under this experience and lectured from Carnegie-Mellon via videoconference. From this revision, a new syllabus was written and submitted for appreciation for a possible vetting in the future by Carnegie Mellon.

The second element of this exchange program is the research activity. Recently a project proposal, submitted to the last Carnegie-Mellon | Portugal call for projects, was recommended for funding. This project involves two faculty members from Carnegie Mellon, Dr. Shawn Blanton and Dr. Peter Steenkiste, within two different activities. The period of this visit coincided with the project startup. Several meetings were held and a strategy refined. The preliminary studies were initiated.

Also had the opportunity to participate on the early studies development held by a PhD. student in the Carnegie Mellon | Portugal program. Within this activity, regular weekly meetings were held with the student and his advisers, Dr. Xin Li (Carnegie Mellon) and Dr. Miguel Correia (FEUP).

Besides these actions, several other contacts and meetings were made with different members of the CSSI, and I also followed research in the areas that I was already developing before coming to Carnegie Mellon.

Pittsburgh, December 14, 2010.

Vítor Grade Tavares.