I present in this report the summary of the activities developed during my visit to the Carnegie Mellon University from 24th August through November 30, 2015.

Professor Dan Siewiorek at the Human - Computer Interaction Institute hosted me. The main goal of my visit was to have the opportunity to join a research group on Virtual Coaches, and to work with research students who were developing the dialog between the virtual coach and users. We were taking into account the user's emotional and physical state that was estimated by their machine learning software and features in the user's spoken responses. I also was able to mentor a group in Mobile Pervasive Computing course.

I can consider that these goals were attained. Moreover, next to these goals I also engaged in other activities:

**Attended courses:**

Attended the following master courses: Mobile and Pervasive Computing - Professor Mahadev Satyanarayanan, Computer Science, and Professor Dan Siewiorek, Human - Computer Interaction Institute & Computer Science Department; Human Factors – Professor Laura Dabbish, Computer Interaction Institute & Computer Science Department; User Centered Research and Evaluation – Professor Jim Morris, Computer Science, and Service design – Professor Jodi Forlizzi, Human - Computer Interaction Institute & Computer Science Department.

**Seminars**

Design History: The Bauhaus by, Karen Berntsen, Associate Teaching Professor, Human-Computer Interaction Institute, Carnegie Mellon University; Designing at the Intersections, by Austin Lee, Assistant Professor, School of Design, Carnegie Mellon University; Data-Driven Healthcare: Visual Analytics for Exploration and Prediction of Clinical Data, by Adam Perer, Research Scientist, IBM T.J. Watson Research Center; From Paid to Organic Crowdsourcing, by Krzysztof Gajos, Associate Professor of Computer Science, Harvard Paulson School of Engineering and Applied Sciences; Evidence-oriented Programming, by Andreas Stefik, Assistant Professor, Department of Computer Science, University of Nevada, Las Vegas; Playing with the Senses, by Heather Kelley, Assistant Teaching Professor, Entertainment Technology Center, Carnegie Mellon University; Modeling Human Communication Dynamics, by Louis-Philippe Morency, Assistant Professor, Carnegie Mellon University; Interacting with Personal Fabrication Machines, by Stefanie Mueller, PhD Student, Hasso Plattner Institute; What makes "Productive Failure" productive? Investigating the mechanisms underlying problem solving prior to instruction approaches, by Nikol Rummel, Institute of Educational Research, Ruhr-University Bochum; From EHRs to Body-Worn Sensors: Finding Causes of Health and Disease, by Samantha Kleinberg, Assistant Professor, Computer Science, Stevens Institute of Technology.

**Research events and visits**

I participated in several events and competitions as a jury and I also had meetings with CMU stakeholders, namely: at the Winter Institute for Simulation, Education, and Research (WISER), University of Pittsburgh; Allegheny Health Network, meeting with Donamarie Wilfong, vice-president STAR Center and Human Engineering Research Laboratories, University of Pittsburgh, meeting with Rory Cooper, Director

I attended some PhD Thesis Defenses at the Human-Computer Interaction Institute and at the Computer Science Department.
Research Meetings

Weekly, I was an active participant in research meetings, organized by Professor Mahadev Satyanarayanan, Computer Science, on topics broadly related to cloudlet-based edge computing. The goal of these meetings was a mix of discussion topics, progress reports on ongoing research, interesting new ideas, practice talks for conferences/workshop, etc.

I mentored the following PhD and Master students on Virtual coaches - Research projects:

My Experience

At CMU I experienced a memorable time for me as it was rich in experience sharing and helped me discover my potential. I have had so many rich experiences and opportunities that I personally believe will forever shape and influence my professional life while fostering personal growth and development.

This opportunity has broadened my knowledge base, which was made possible through my participation in the various events organized by the human computer interaction institute and my interaction with participants at all of them.

Acknowledgments

These experiences would not have been possible without the contribution and collaboration of others. My sincere gratitude: I would like to thank CMU-Portugal program and Portuguese Foundation for Science and Technology for supporting my visit and providing me with the opportunity to meet other people and to learn new skills and enhance my personal ones.

I want to address a special thank to my host, professor Dan Siewiorek for his support and for giving me the opportunity to live these experiences. I am grateful for their hospitality and guidance along the time I spent at CMU. He was a gentle person that treated me has a family member.

I am grateful to professor Asim Smailagic who provided me the logistical support necessary to make my life easier and for their assistance during my stay.

Many thanks for professor Mahadev Satyanarayanan who contributed for me to gain the knowledge and understanding in different research fields and to allow me to get deeply involved in mobile and pervasive computing classes.

I also want to thanks Jodi Forlizzi, Laura Dabbish and Amy Ogan for sharing their teaching methodologies and research experiences with me.

Last but not the least, I am thankful for my family members for their valuable support and cooperation without which it would not have been possible to undertake this journey.

I look forward to seeing what comes in the future and hope to continue cooperation with all of these people.

December 2015

Arminda Guerra Lopes