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Teaching Statement

In our research-driven jobs, we have to know that our success is fulfilled not only by how many contributions we have added to the science as researchers but also how many have been influenced by us as educators. Despite they look like two different tasks, research and teaching are two sides of the same coin in my opinion. We have to do well in research to have something to share; and we have to do well in teaching as well to make things we share sound interesting. Among those things that I have learned from my teaching experience is that it working as an educator has a wonderful opportunities to work with people during a stage of their lives that they will always regard fondly. I think students are entitled to more than just gaining knowledge in their study subjects.

During lectures, I always try to provide the intuition behind the theories being delivered to students to draw their attention to the basic concepts underlying the taught material. In addition, I seek to clarify the potential applications of these concepts in the solution of real-world challenges. This could attract and uphold students' interest, which is, in my opinion, a key element of effective teaching. One of my goals as a teacher is to get students to think critically, even though in challenges that they have never know about them in their study period. I accept my limitations and strive to become a better teacher. I encourage students to express their comments about their progress, my teaching ability, and the way the course is structured by providing them the opportunity to formally evaluate these aspects. It is always a positive experience to address their concerns and make changes as needed. I put significant effort in creating an enjoyable classroom environment and usually develop friendly relationships with students, which is helpful in getting valuable feedback.

Teaching interests and plans:

Based on past experience, I found all aspects of teaching to be stimulating and rewarding: lecturing, interacting with the students, formulating problem sets, and lab experiments. As a junior faculty, I would be pleased to teach in basically all topics of the undergraduate Robotics Engineering curriculum. In particular, I have a solid background in Robot Kinematics, Dynamic Modelling, and Control. I would welcome the opportunity to teach Embedded Systems topics since I have a technical experience when I was working as an "Embedded systems engineer" before my academic career. Also, basic topics in Electronics such as Circuits, Signals and Systems, or Sensors and Actuators are of interest for me to deliver for undergraduate students.

At the graduate level, I would be interested in teaching and enhancing courses in soft computing topics such as: Fuzzy Logic and Neural Networks and their applications in Intelligent Control. Moreover, I am keen on introducing an advanced-level graduate course focusing on the Robot Vison and Perception with some useful trending techniques such as Deep Learning and Reinforcement Learning.