Internship in Control and Automation

Supervisor	Prof. Dr. Marcio Rosa Prof. Dr, Rodrigo Marques Figueiredo
Project	**Electronics Manufacturing and Encapsulation**
Description	The objective of this area is to research the topics related to modeling and identification of continuous and discrete processes, traditional and advanced control systems, industrial instrumentation, industrial networks, real-time systems, process evaluation and diagnosis, process supervision and management systems of industrial assets. With the development of these research themes along with practices carried out in academic activities, the line seeks the qualification of professionals in the area of engineering to act in the field of industrial automation and control. In addition, the course offers special subject disciplines focused on the area of power electrical systems, covering aspects of supervision and automation of distribution and smart grids.
Tasks	The student will be able to model, identify and analyze the dynamic behavior of industrial equipment and processes, as a step before adopting a control strategy, select the instrumentation required for automation and control of industrial equipment and processes, analyze, evaluate and specify the resources, equipment, processes and functions of automation and control for electricity distribution networks, design and implement control strategies, evaluate their performance and diagnose the root cause of problems. In short, mastering the fundamentals of technologies and methods used in the field of instrumentation, automation and control, to promote the integration of technologies for the purpose of operating processes or controlling systems for better performance, high productivity, adequate operating conditions and safety conditions .
Requirements	Basic knowledge on electronic, materials and control automation.
Language Skills	English (Portuguese would be nice, but is not necessary).
Duration	4-6 months
Possible Beginning	February/March or July/August.
Credits	According to agreement
Payment	None