Company: ALTEN Nederland

Supervisor(s) at company (name + e-mail addresses):
Ben Van Mierloo
ben.van.mierloo@alten.nl

University

Supervisor(s) at university (name + e-mail addresses; TU/e will look for suitable supervisors if left blank):

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Project title (or topic):
Control a prosthetic arm with muscles.

Short project description:
In recent years, the development of prosthetics has grown exponentially. However, professional advanced prosthetics are often not in reach of an average person, due to the price. Luckily, modern techniques offer a cheap alternative using 3D-printing and cheap and fast microcontrollers. This makes it a viable alternative for the expensive “professional” prosthetic arm.

Technical assignment:
Your task will be to create a system to receive data from the different muscles in the upper and lower arm, to be able to control a printed prosthetic arm.

Business assignment*:

*This part is only relevant for graduation projects carried out by students of the EIT ICT Labs (www.ictlabs.eu) variant of the Embedded Systems program. In addition to the MSc thesis about the technical aspects of their graduation project, these students need to write a short additional report discussing the business-related aspects of their graduation project. Please fill in this part if you wish your project proposal to be considered for this option.