Company: Bright Cape B.V.

Supervisor(s) at company (name + e-mail addresses):
Ivo Schutz, ischutz@brightcape.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):
Social robots for autonomous medicine delivery

Short project description:
Care institutions face a shortage of nursing staff. And this shortage will increase even more in the coming years. So there is an urgent need for alternative methods that alleviates the workload of the nursing staff. One of these solutions is an autonomous medicine delivery robot which Bright Cape will develop. This robot will deliver medicines and provide a personalized social experience where it actively engages and mentally stimulates the patient based on machine learning. This project is part of a project under the European Commission within the innovation accelerator EIT Digital. Bright Cape is the leading partner, and will develop and implement this concept together with other industry and research partners throughout Europe.

Technical assignment:
You will be developing the algorithmic method that is able to deliver the right medicine to the right patient. The algorithm will include functionalities such as way-finding and adaptive response. It needs to prioritize the route delivery within care institutions, and anticipate to new situations. You will operate within our multi-disciplinary team consisting of data scientists, business developers, UX researchers and our European research partners.

Business assignment:
For this project a new start up will be created as a daughter company of Bright Cape. Social way-finding robots are innovative in the field of care, and therefore a new business plan has to be set up. What is the best strategy to bring this to the market, what institutions or European countries should be targeted first, what does this mean for risks or legal implications, what will the pricing model be, etc.? Assisting our business developer, the student will write a short business report related to former mentioned topics.