Graduation Project proposal

**Company:** Philips

**Supervisor(s) at company (name + e-mail addresses):**

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**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):**

Predictive maintenance for moulding machines

**Short project description:**

Philips Drachten encompasses a large suite of highly automated processes used during the manufacturing of electric shavers. Of these manufacturing processes, injection moulding is of particular importance, as this is used during the fabrication of plastic components for electric shavers. All of these plastic parts are manufactured onsite at Drachten, requiring approximately 80-90 moulding machines. The machines are measuring and capturing process parameters that can be used for predicting the failures that result in bad batches. This is at the moment done manually after the batch has already been produced.

**Technical assignment:**

Philips Research Eindhoven is collaborating with Philips Drachten to develop models for predictive maintenance that will be applied to the moulding machines. Every machine produces a dataset and the goal is to detect anomalies in the dataset automatically to give a notice of anomalous behavior and tooling malfunctions in advance.

**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.