



Master Thesis – Automated measurement on textiles

Recycling of textiles is a very important task. The project EnZaTex aims to improve the overall recycling process of textiles. The machine vision group at Profactor is looking for a master's degree student to perform his/her thesis in the field of automated detection of measurement points on textiles, as basis for spectroscopy measurement.

The aim is, to use a pre-setup laboratory test stand and take images of textiles. Based on these images different machine learning algorithms should be developed and evaluated concerning the ability to detect possible measurement points for the spectroscopy. This means for instance, to recognize button, zips or damaged parts of the textile as well as even points to carry out the subsequent measurement appropriately.

Your tasks

- Planning and building of the laboratory Test stand (incl. sensors, cameras and illumination)
- Gathering images from sample textiles
- Development of a an automated machine learning algorithm for the detection of optimal measurement points
- Documentation in the form of reports and a publication ready document

We are looking for

- Knowledge in machine learning
- Knowledge in machine vision
- Familiarity with one of the deep neural network frameworks (e.g. tensorflow/keras, pytorch)
- Experience in python programming language

Benefits



Trainings



Flexible working hours



Teamwork



Parking places



Health measures



Employee events



Fruits



Sport events

Start/Duration

Now / 7 months

Our Mission

PROFACTOR's research improves the competitiveness of European Industry. We are pioneers of the thinking production. We bring production back home.

We offer for master thesis a compensation of min. 465 EUR per month.

We are looking forward to your application preferred [online](#) or send your application to: personal@profactor.at

Questions? please contact:

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