



Karevo

Dive into the World of
Automation in Agriculture!

Bachelor's or Master's Thesis Spectral Image Processing and Spectroscopic Characterization of Table Potatoes

*Study fields: Agriculture, Informatics,
Physics, Engineering or related*



Our mission

We specialize in creating affordable, retrofittable potato sorting systems. Our core mission? Empowering farmers with state-of-the-art AI. With our solution we want to reduce their workload, save labor costs and allow them to focus more on the product and their personal life. We're initiating our journey with small to medium scale potato farmers as our primary market, setting the stage for further affordable automation innovations in agriculture.

Work Packages

- **Literature Review** of potential imaging solutions for internal defects and nutrient analysis of potatoes (e.g. starch content)
- Selection of suitable, economically viable camera systems based on research and a **cost-benefit analysis**
- Development of a **concept to integrate the system** into existing agricultural machinery (e.g. potato harvesters)
- **Testing** of the camera system in a real-world setting
- Identification of **further research areas**



Start-up culture

Team events, agile work style (SCRUM), flat hierarchies and flexible working hours, motivated team, free coffee



Real world impact

You will help develop affordable machines for farmers, reducing their workload and improve food security



Ownership

You get responsibility for your task and are the first contact person for that.



Office and Makerspace

We have our office space in the TUM Venture Lab in Freising with direct access to a makerspace and colab

Contact



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