

# Master's Thesis: Edge AI for face recognition and object detection

The project aims to develop shopping experience where the customer can check out products in a store without going through a check-point (a cashier for instance). The technology of Tosk ([www.tosk.se](http://www.tosk.se)) is based on an RFID tag system. Recently Amazon opened its concept store Amazon Go, where they use cameras to track customers and products and a pairing of the two is made which determines a purchase.

The project's goal is to use Sony cameras with edge AI (mainly CV) and sensor fusion, where information from multiple cameras and RFID signals are combined in order to make sure that the pairing of customers and products is accurate (only cameras imposes limitations on the distance between the products and the distance between customers and products) and also to resolve some signal processing issues when relying on RFID tags solely.

This thesis will be conducted with **Sony**, **Tosk**, **Bitynamics**, and **RISE AI**. Compensation is provided for the successful thesis.

In order to be competitive, the applicant must have strong academic records and programming skills. Knowledge of Python and Computer Vision would be ideal.

Apply by sending your CV and your transcripts of records for your BSc and MSc studies.

## Contact

**Ather Gattami**, PhD  
Chief Scientist, Bitynamics AB ([www.bitynamics.com](http://www.bitynamics.com))  
Senior Research Scientist, RISE AI ([www.ri.se](http://www.ri.se))  
e-mail: [gattami@bitynamics.com](mailto:gattami@bitynamics.com) or [ather.gattami@ri.se](mailto:ather.gattami@ri.se)  
Tel: +46 70 422 53 30