### SDU 🍲

International

**Elite Summer School** 

in Robotics & Entrepreneurship



## **INDUSTRY CASE**

Odense – Denmark 🗰 Aug. 5<sup>th</sup> to Aug. 23<sup>rd</sup> 2025

# **#10\_LEGO\_E** TLG tool generator

### Context

The LEGO group produces thousands of different elements with new ones coming every year. This creates challenges and takes time to create tooling to handle the elements. To reduce engineering time and introduction time, we are looking to automatically generate EOAT (gripper and suction cup) and defining element pick point based on a required final position. The automatically generated gripper should also target to handle as many elements as possible to limit the inventory of them.

As a first step, the aimed system should define if a current gripper in the database is usable for the target element. If yes, define the pick point, if not design a new EOAT or modify an existing one able to pick the new element and as many other element as possible

Challenge More info coming soon

Tools, methods and materials More info coming soon

Ideal outcome for the company More info coming soon



We are the company behind the bricks and have been sparking children's imaginations since 1932. Today, we transform our factories through Automation and Robotics, delivering productivity and an exiting workplace, where skilled colleagues play key roles as problem solvers and innovators. We ensure LEGO manufacturing equipment has the latest Operational Technology and Robotic features and through AI/ML/Simulation enabling a cyber secure, efficient production with reduced lead-time and cost savings.

www.lego.com/da-dk/careers/