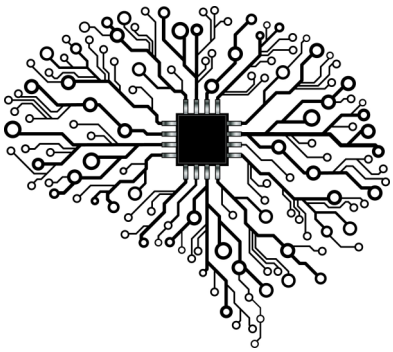
angsa

the autonomous trash picking robot
angsa-robotics.com

Partner:
Chair of Robotics, Artificial Intelligence and Embedded Systems

Electronical Backbone and PCB Design for an Autonomous Robot

EI Ingenieurspraxis | Bachelor's Thesis | Master's Thesis



Angsa revolutionizes the removal of trash on grass and gravel: Individual objects are detected by an artificial intelligence and removed by the autonomous robot.

The goal of this project is to develop the next generation of the robot's electronical circuits and PCB with the required components for the power train, motor control, sensor access and logical components. The final PCB will be manufactured in the Makerspace.

Your Tasks

- Review of literature and similar systems
- Overview of the current PCB, electronical components and potential issues
- Review and improvement of the circuit design for the next PCB generation
- Energy and space optimization
- Evaluation in real-world scenarios

Your Profile

- Enthusiasm for mobile and intelligent robots
- Experience with electronics and PCB design (Eagle or KiCAD)
- Structured and independent work style
- Team spirit and good communication skills
- Enrolled in Electrical Enigneering or similar

What We Offer

- **Startup culture:** Team events, flat hierarchies, agile methods and flexible working hours
- **Real-world impact:** Your modules are used in pilot projects with customers.
- **Responsibility and leadership:** Good work and ownership are rewarded at Angsa: You can play a decisive role in shaping your role in the team.
- **Workplace & Equipment:** A workplace with desk for you in our office and workshop in the TUM Incubator, access to the Makerspace, free coffee & snacks.

Sounds Interesting?

Send us an e-mail with a short description of your skills and motivation. If you have questions about the job or about us, just call us or come by our office in Garching.

Not the right topic yet? Have a look at our other open projects:
angsa-robotics.com/students

Find us in the TUM Incubator:
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