

Your Master plan:
Mechatronic & Cyber-Physical Systems
in Deggendorf

YOUR TICKET TO ONE OF THE FASTEST DEVELOPING TECHNICAL SECTORS!

The global Cyber-Physical Systems market was estimated at **USD 118.20 billion in 2024 with 13.7% annual growth rate** until 2030.

Source: Grand View Research - Cyber-physical Systems Market (2025 - 2030)

Industrial applications



Consumer products



Farming assistant

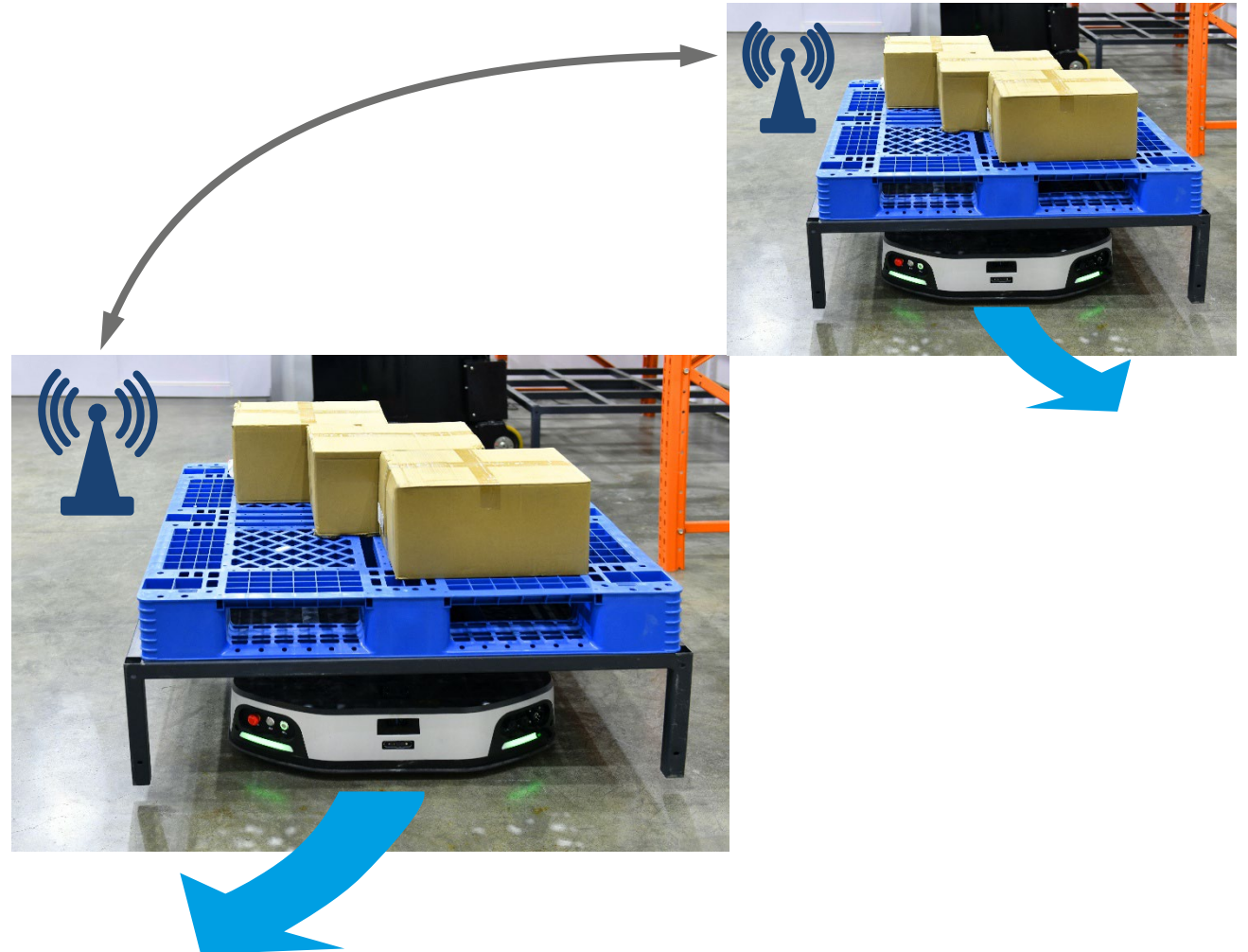


Medical technology



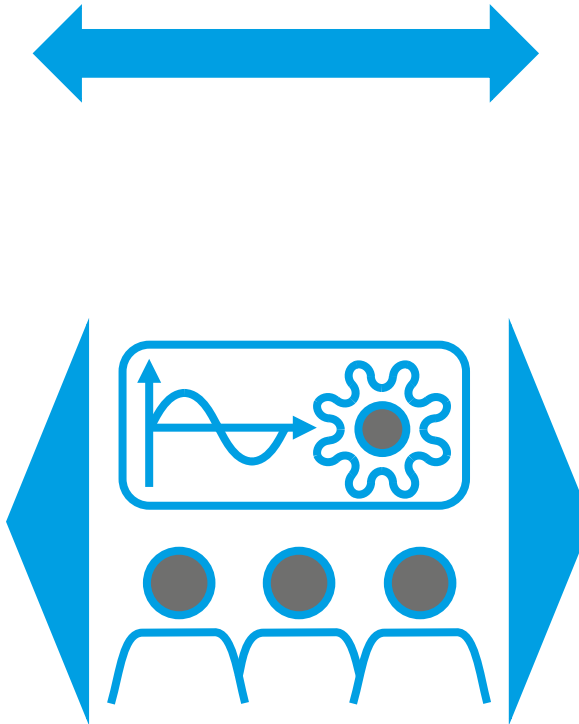
WHAT'S A CYBER-PHYSICAL SYSTEM?

- **Cyber:**
Networks, WLAN modelling
- **Physical:**
Interacting with the physical world,
Sensors & Actuators
- **System:**
Control engineering, systems engineering



KEY TOPICS

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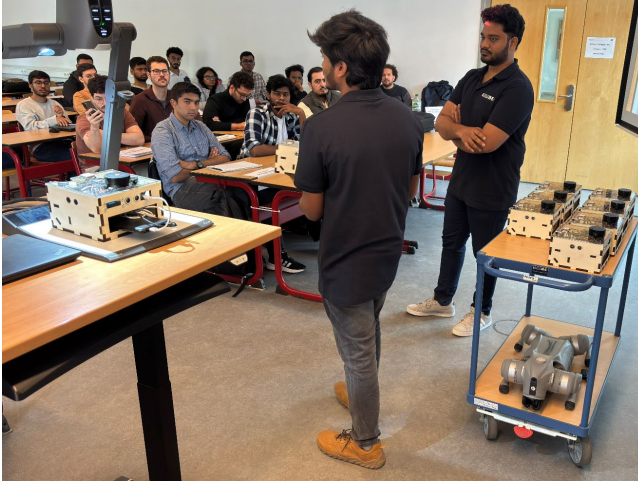


PROGRAMME CONTENTS

- Cyber-physical systems
- VR/AR
- Innovative HMI
- Robotics
- Autonomous systems
- Additive manufacturing
- Modelling & simulation
- Functional safety

+ 4 CASE STUDIES:
Practical implementation with
in total approx. 650h workload

VOICES OF DIT - HANDS ON LEARNING IS IMPORTANT!



Theory is important, but practical application is what can change the world. That's why my favorite part of the Master's programme are the Case Studies! The projects are challenging, but they have truly helped me grow — both as a person and as an engineer.

Saikumar Konakanchi, 2025

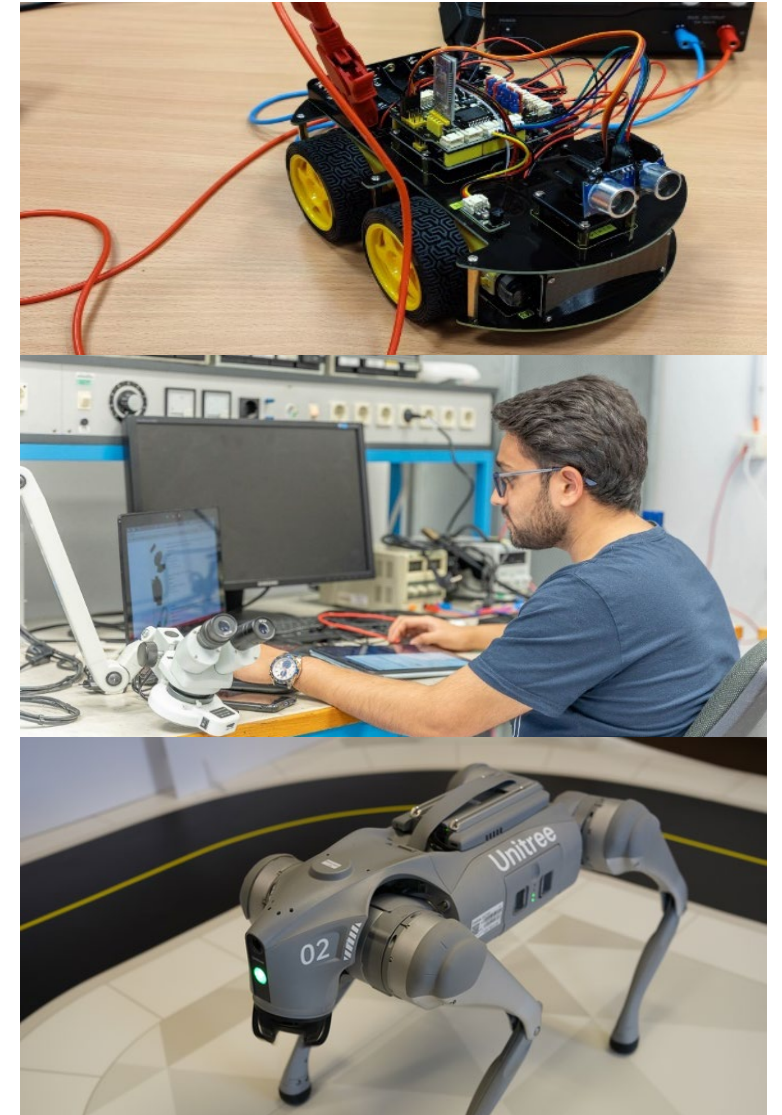


Autonomous Systems is an extremely dynamic field. I have learned a lot during this course, and the combination of theoretical research and practical implementation is a unique experience!

Nitin Mediseti, 2025

HIGHLIGHTS

- **CHE University Ranking 2021/2022:** The Faculty of Mechanical Engineering and Mechatronics is in the top group in the area of "Practical Relevance".
- The study programme places a great emphasis on **practical application**. Using numerous case studies, students learn to translate theoretical concepts into real-world solutions (650 hours in total).
- **Teaching Labs:** IT, Sensorics, Electrical Engineering, Embedded/IoT, Intelligent Robotics



COURSE OF STUDY

- **Duration:** 3 semesters
- **Start:** winter semester (01. October) at Campus Deggendorf
summer semester (15. March) at Campus Cham
- **Application period:**
15 Apr. – 15 June (for winter semester) for Campus Deggendorf
01 Oct. – 01 Dec. (for summer semester) for Campus Cham
- **Teaching language:** English
- Applied & interactive teaching style
- Personal support, small groups and close ties with professors

ENTRY REQUIREMENTS

- **Bachelor degree (at least 210 ECTS credits)**
in the fields of industrial engineering, technical physics, mechanical engineering, electrical eng., mechatronics or a related degree programme.
- **Admission test** (online or on-site)
based on subject areas relevant for the study programme:
 - Mathematics, Physics,
 - Electrical engineering,
 - Control engineering,
 - System theory,
 - Simulation,
 - Computer science
- **Language requirements:**
 - B2 English certificate (prior to DIT studies)
 - A2 German (by the end of your DIT studies)

WHAT'S NEXT?

The programme prepares you to take on **key roles** in a **wide variety of positions** in **different areas** depending on your personal interests and background.

JOB PROFILE

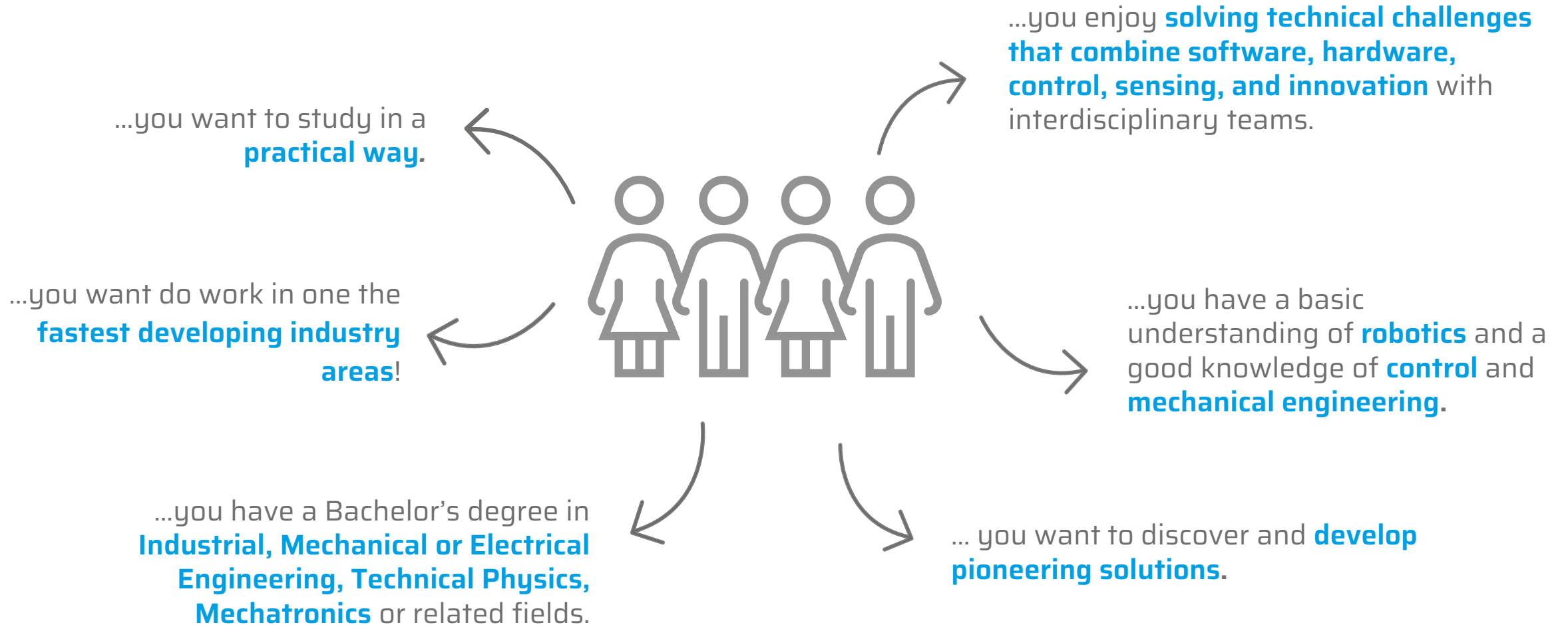
- Autonomous Systems Engineer
- Robotics Engineer
- System Integration Engineer
- Embedded System Engineer
- ...

AREAS AND INDUSTRIES

- Hardware & software design
- Research & development
- Autonomous systems design
- Robotics
- Manufacturing
- Mobility & Automotive
- ...

IS THIS PROGRAMME SUITABLE FOR YOU?

Yes, if...



WOULD YOU LIKE TO FIND OUT MORE?



Would you like more detailed information about the programme, or do you have any questions?

You are very welcome to contact

Prof. Dr.-Ing. Stefan Scherbarth.

Simply make an appointment at stefan.scherbarth@th-deg.de