

# Cedric Maume

Computational Engineering Student



## About Me

A highly motivated engineering student working in Robotics with a passion for Software Development

## Personal Info

**Nationality:** German  
**Born:** 2000

## Hobbies

Soccer • Cinematography  
Skiing • Biking • 3D Printing

## Languages

German	C2	● ● ● ●
English	C2	● ● ● ●

## Contact

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CedricM9

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## EDUCATION

10/2018 - Current	<b>RWTH Aachen University</b> COMPUATIONAL ENGINEERING SCIENCE B.Sc	
2013 - 2018	■■■■■■■■■ <b>Secondary School</b> ■■■■■■■■■, Canada 📍	
2012 - 2013	■■■■■■■ <b>Schule</b> ■■■■■■■■■, Germany 📍	
2009 - 2012	■■■■■■■■■ <b>Elementary</b> ■■■■■■■■■, USA 📍	
2006 - 2009	<b>Grundschule</b> ■■■■■■■■ ■■■■■■■■■, Germany 📍	

## EXPERIENCE

11/2023 - Current	<b>Student Assistant</b> Institute of Mechanism Theory, Machine Dynamics and Robotics Development and Integration of software solutions for several robots in ROS2 (Robot Operating System) using Python and C++ <ul style="list-style-type: none"><li>• <b>Inverse Kinematics of a Parallel Robot:</b> Determining the necessary movements to achieve a desired pose starting from initial conditions</li><li>• <b>Creation of a Hardware Interface:</b> Designed and implemented a system to enable communication between a robot and a programmable logic controller (PLC)</li></ul>
01/2024 - 12/2024	<b>Mobile Software Developer</b> Factor36 (Self-Published) Independently designed and coded an arithmetic-based puzzle game from scratch, officially released on Android <ul style="list-style-type: none"><li>• <b>Godot and GDScript:</b> Self-taught in programming with GDScript using the Godot game engine, as well as App Store integration</li><li>• <b>Full-Stack Development:</b> Responsible for all aspects, from coding and design to testing and development</li></ul>
06/2023 - 09/2023	<b>Project Research Paper</b> Laboratory for Machine Tools and Production Engineering (WZL) Re-implemented an existing digital twin of a 6-axis robotic arm in Python/C++ using the Bullet Physics Engine

## SKILLS

Git	Linux (Arch + Debian)
Docker	CAD (FreeCad + Fusion)
Godot	3D Printing
ROS/ROS2	Embedded Systems
Proxmox	ModbusTCP
LaTeX	OPC-UA

## PROGRAMMING

<b>C++</b>	● ● ● ●
<b>Python</b>	● ● ● ●
<b>GDScript</b>	● ● ● ●
<b>Java</b>	● ● ● ●