JOSÉ LUIZ S. MENDONCA

Student | Maker | Team Leader

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EXPERIENCES

Physics Tutor
Hochschule Ravensburg-Weingarten

📅 March 2024 –   📍 Weingarten

- Responsible for hosting weekly tutorials to support lecture
- Preparing students for examinations
- Moodle course management, exercise creation

CAD Lecture Assistant
Hochschule Ravensburg-Weingarten

📅 March 2024 –   📍 Weingarten

- Reverse engineering parts and modeling them in Solidworks
- Helping students with various issues ranging from system setup to design theory, technical drawing rules

Research Assistant (HIWI) for Automotive Engineering
Hochschule Ravensburg-Weingarten

📅 Oktober 2023 –   📍 Weingarten

- Exercise creation for the students
- Matlab simulation
- Composing

Eletronics Production
RAFI Ravensburg

📅 Juli 2023 – September 23   📍 Berg

- Testing production parts
- Operating and programming industrial robots
- Maintenance of production line parts

Mechanic
Hofgut Wiggenweiler

📅 April 2022 – Februar 2023   📍 Bermatingen

- Maintenance and operation of tractors, telehandlers, and other heavy vehicles
- Inventory management

MOTO

"Far and away the best prize that life has to offer is the chance to work hard at work worth doing"

SKILLS

Hard-working   Proactive   Flexible
Team Work   Team Leadership   Passionate

C   C++   Python   Docker   Linux
git   LaTeX   ROS Noetic/Humble   Arduino
STM32   Raspberry Pi

Fusion360   Solidworks   Autocad
LTspice   Altium Designer   Matlab

Power Electronics   CNC-Machining
3D-Printing   Automotive Engineering
Analog Electronics   PCB design
Electric Motor Control

LANGUAGES

English   ●●●●●

Portuguese   ●●●●●

German   ●●●●○

Spanish   ●●●○○

EDUCATION

E-Mobility and Green Energy
Hochschule Ravensburg-Weingarten

📅 March 2022 –

PROJECTS

Additive Cooling

Hochschule Ravensburg-Weingarten

📅 März 2023 – Juli 2023

- Creation of test benches for temperature measurements in metal props
- Prototype creation using 3D-Printing and CNC machining
- Designing various parts for 3D motors, and using mostly Fusion360
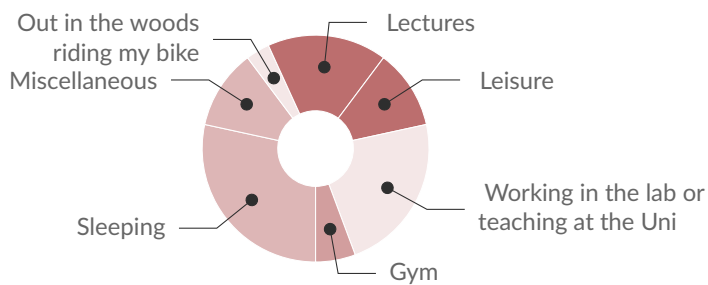- Documenting work with LaTeX

Rover to Mars

Hochschule Ravensburg-Weingarten

📅 November 2023 –

- Team management (Mostly done through Github)
- Developing Software for a 6-wheeled rocker buggy style rover (Using ROS Humble as middleware, and Python for most of the nodes)
- Creation of Docker applications
- Setting up CAN communication between ODrives (motor controller) and controller
- Supporting Mechanics team in areas of expertise (machining, chassis design, teaching new team members about technical drawings, design considerations, etc)

A WEEK IN MY LIFE

ABOUT ME

International Experiences

- Visited more than 25 countries over the last 10 years
- Took part in several interchanges, and active member of CISV
- Student buddy for international students in the RWU

Hobbies

- Loves to play piano, or jam with friends
- Big fan of downhill MTB, loves to ride bikes in ways they are not meant to be ridden
- Enjoys cooking, and trying new recipes
- Car guy - loves to work on cars, and drive them
- Being in the wild makes me feel alive
- Audiophile, lover of analog music, and amplifier design enthusiast
- Passionate sailor