

# JOSÉ LUIZ S. MENDONCA

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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
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### 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 Wiggerweiler

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

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### 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
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### Rover to Mars

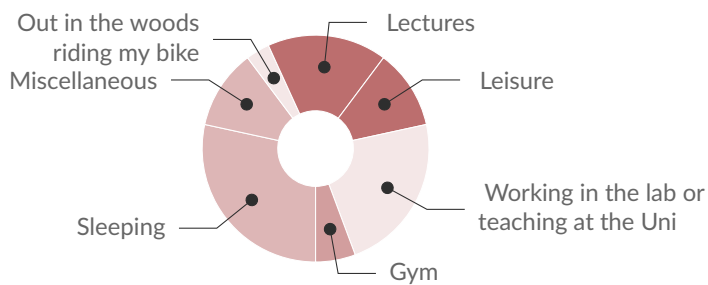
#### Hochschule Ravensburg-Weingarten

📅 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

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## ABOUT ME

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### 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
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### 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