# Tony Najjar

Senior Robotics Software Engineer

I aim to be a key contributor to the robotics revolution. Bringing machines to life in a way that is useful for humans is my passion and is what robotics is about to me.



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#### **WORK EXPERIENCE**

# **Senior Robotics Software Engineer**Pixel Robotics

09/2021 - Present

Munich, Germany

Achievements/Tasks

- Developing software for AMR over a wide range of the autonomy stack: navigation, localization, behavior, control, perception, drivers, tooling, simulation...
- Porting Non-ROS codebase to ROS2 (launch system, architecture, open-source contributions, etc...)
- Generate and lead larger technical refactoring with junior engineers

# Robotics Deployer - Operations Engineer - Operation Center Lead

Magazino GmbH

08/2019 - 09/2021

Munich, Germany

Achievements/Tasks

- Establishing and leading <u>Magazino's Operations Center</u> for remotely monitoring and troubleshooting Magazino's robot fleet of 15+ robots over 3+ locations
- Deployment and integration of production-grade autonomous robots in unstructured environment
- Troubleshooting of failures over the whole autonomous robot stack: Reasoning, Navigation, Perception, Grasping

## **Robotics Software Engineer Intern** BMW - Logistics Robotics

07/2018 - 12/2018

Munich, Germany

Achievements/Tasks

 Developed a maintainable, modular and generic state machine for the automated palletizing of different box sizes. Tech stack: ROS, Python, SMACH, UR10 Sortbot.

## Robotics Research Intern

**CERN & Lebanese American University** 

06/2017 - 08/2017

Geneva, Switzerland

Achievements/Tasks

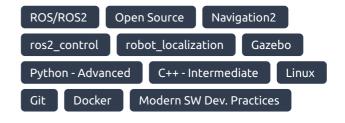
 Mechanically and electrically designed a magnetic fieldresistant inspection mobile robot for the CMS cavern

## **EDUCATION**

## B.E. (Diplom) Mechatronics Engineering

Lebanese American University, Lebanon 🗷

### SKILLS



## **PROJECTS**

Tricycle Controller 🗗

 Created and contributed the mobile base tricycle controller to ros2 controllers

Navigation2 🗗

Active open-source contributor to the navigation2 ROS2 project

### ROS2 Open-source contributor

- Contributed to numerous ROS2 packages such as: STVL, costmap\_converter, gazebo\_ros2\_control, rclpy, ros2\_control, etc...
- Contributed with issues to ROS2 packages

Steady – RPi, Arduino, MATLAB

Self-balancing robot with double PID controller

## **AWARDS**

Winner of CERN's International Webfest (2017) ♂

3rd in AUB's Build-It Hackathon (2016)

3rd in Engineering Scholarship Competition, LAU (2014)

Winner of the CS Summer Institute, LAU (2013)

2nd in Google-sponsored CS4HS contest in UOB (2011)

## **LANGUAGES**

English				
Arabic				
French				0
German			0	0
Spanish	0	0	0	0