



FOSDEM

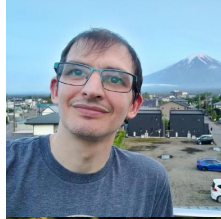
Robotics and Simulation devroom

© 2nd February, 2025

→ fosdem.org/2025/schedule/track/robotics/

Who are we

Arnaud Taffanel (Bitcraze)



Lucas Chiesa (Ekumen)



Fred Gurr (Eclipse Foundation)



Mat Sadowski (Weekly Robotics)



Kimberly McGuire (formerly Bitcraze)



Robotics and Simulation devroom (short) history

- Open Source Robotics Bird of Feather organized last year at Fosdem 2024
 - Confirmed interest and allowed to identified interested people
 - Impromptu lightning talk/project showcase!
- First Robotics and Simulation devroom at Fosdem!
 - Already much more talk proposal than we had spot for
- Hopefully not the last one :-)

Why Robotics at FOSDEM?

- A lot of the robotic ecosystem is Open-Source
- Already quite some Robotics talk at Fosdem over the years
- Foster communication between projects
- Simplify discovery of projects in the space
 - and Identify missing pieces!

Some open-source robotics

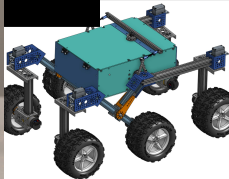
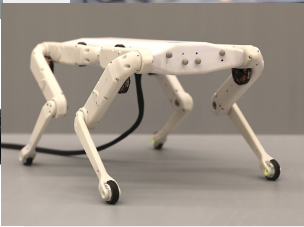
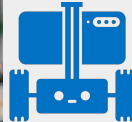
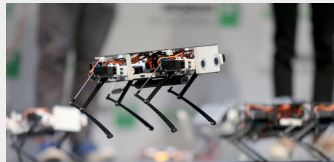


MuJoCo



ARGoS

Large-scale robot simulations



dora-rs



MRPT

What comes next?

- Robotics and Simulation devroom at FOSDEM 26!
- Any interest for a framework/project independent Robotics **community**?

[**matrix**]

#2025-robotics:fosdem.org

Schedule

Lightning Talks

Long Talks

Lightning Talks

Event	Speakers	Start	End
Sunday			
Welcome to the Robotics and Simulation devroom	Arnaud Taffanel	13:15	13:20
PyCRAM - A Framework for Cognitive Robot Control	Jonas Dech	13:20	13:25
All my frustrations with ROS summed up in 5 minutes	Roland Meertens	13:25	13:30
Building a robot powered with Raspberry pis and Arduinos from a super fast Traxxas RC car	Loïc Vigneron	13:30	13:35
Accelerating robotics development through simulation	Ignacio Davila Galesio, Agustin Alba Chicar	13:40	14:05
O3DE: Creating realistic simulations with open-source game engine	Jan Hanca	14:10	14:35
Repurposing Valve's SteamVR 2.0 Technology to Develop an Open-Source, Low-Cost Motion Capture System for Robotics	Said Alvarado-Marin	14:40	15:05
Eclipse Zenoh: Understanding the Protocol and its Potential in Robotic	Julien Enoch	15:10	15:35
BTstudio, a web tool for programming robots with Behavior Trees	JoseMaria Cañas Plaza, Javier Izquierdo	15:40	16:05
ArduPilot : Trusted, Versatile and FOSS autopilot for all and everything	PIERRE KANCIR	16:10	16:35
Whales use Lighthouses too: Open source positioning for open source robots	Michel Hidalgo, Lucas Chiesa	16:40	16:45
Build, Launch, and Soar with Dronecode: The infrastructure ecosystem for the development of autonomous aerial robotics.	Ramon Roche	16:45	16:50
Integration and unit testing in ROS 2	Arne Baeyens	16:50	16:55
ROS in transition: a new organizational path under the Open Source Robotics Alliance	Jose Luis Rivero	16:55	17:00