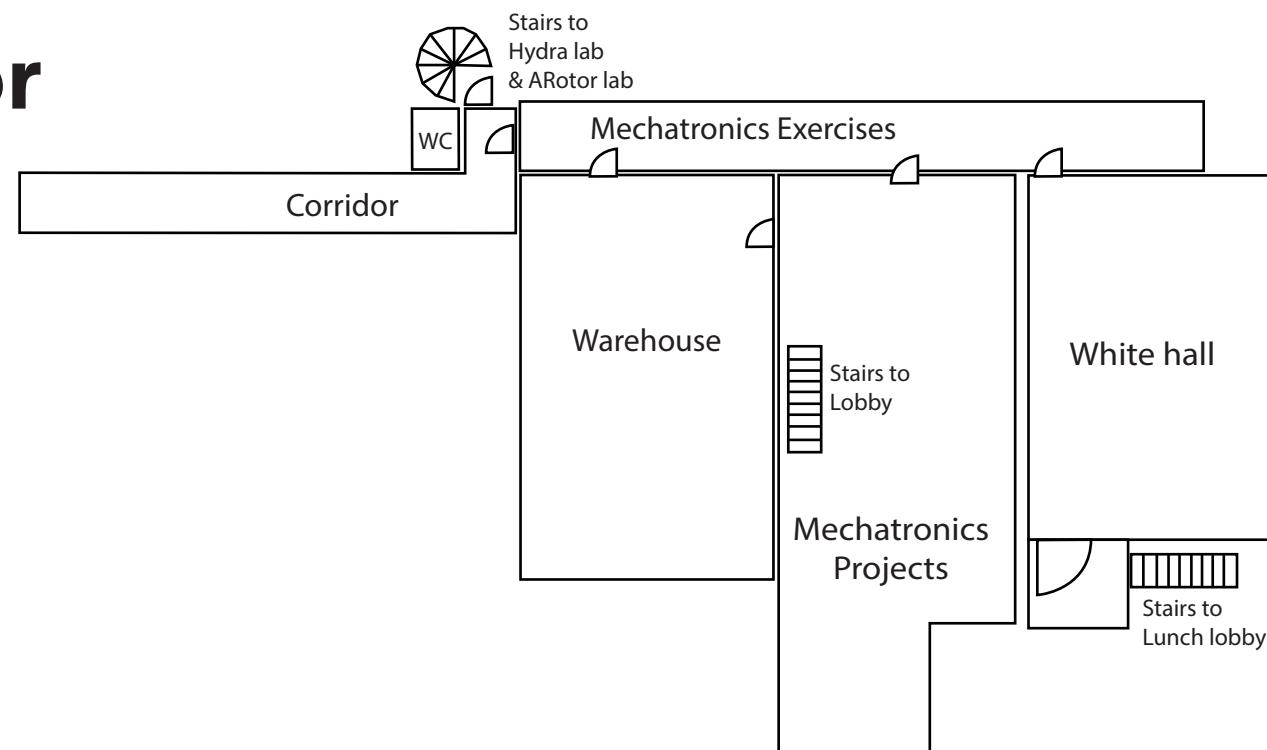


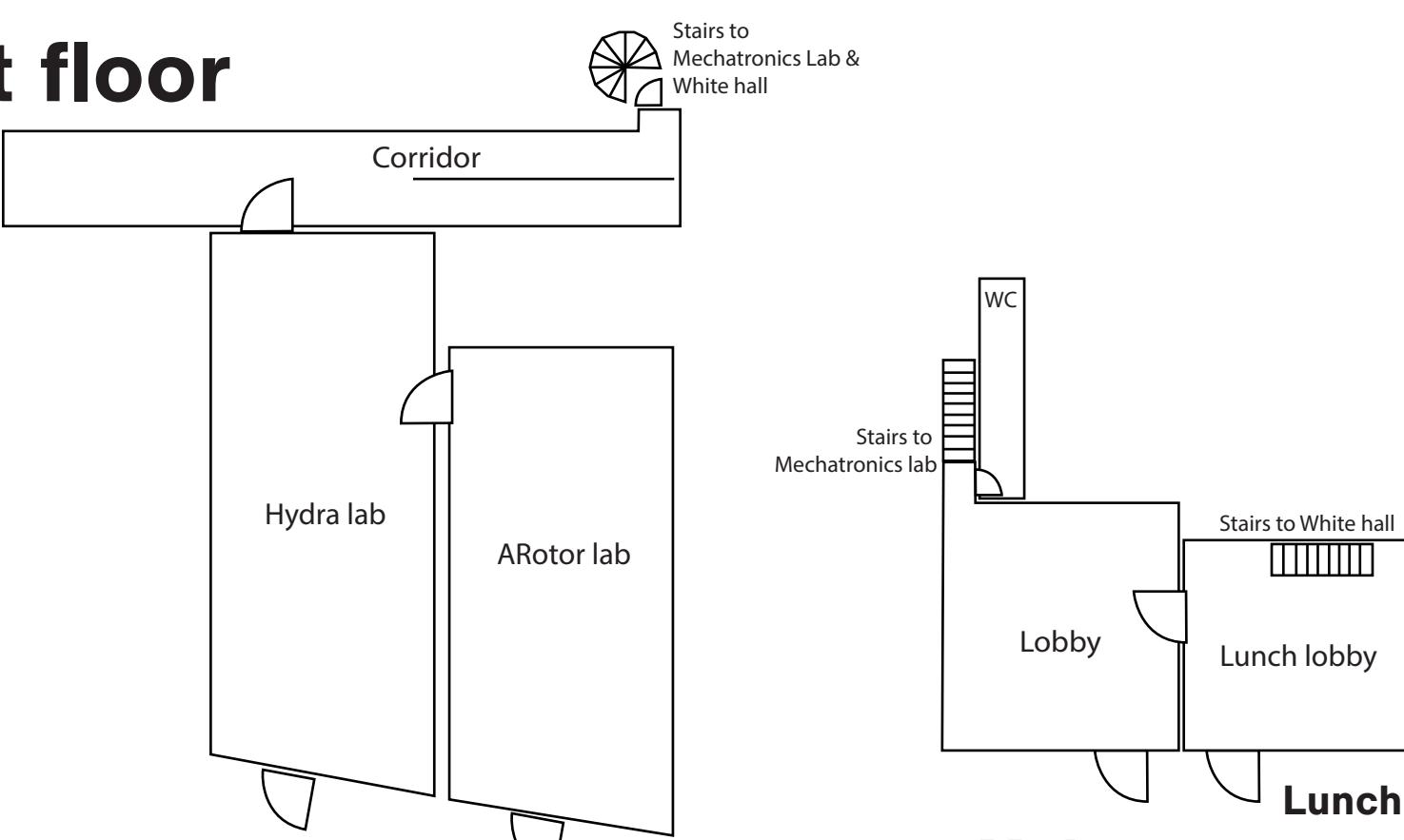
Mechatronic Circus & Demo Day 2022

Indoor map

2nd floor



1st floor



Mechatronics Projects & Exercises

Open 10.00 - 15.00

Warehouse 10.00 - 15.00

Excavator powered with energy efficient direct driven hydraulics, Antti Sinkkonen

Lobby

Learning services

Hydra Lab 10.00 - 15.00

Dolores: Large scale direct driven hydraulic test bench, Ville Närvenen
Test bench for development of differential cylinder direct driven hydraulic actuator, Robin Granqvist
Pneumatic booster, Mechatronics project

White hall 12.15 - 15.00

Factory control with digital twin documents, Joel Mattila
Mixed reality with digital twin documents on HoloLens 2, Xinyi "Joyce" Tu
Ilmatari crane in VR with Varjo & Oculus headsets, Riku Ala-Laurinaho
Innovaatiokeskus, Henry von Schulman
Remion Regatta & fuzzy modeling, Miika Valtonen, Remion
Virtually validate your Smart Factory, Markus Ranta, Ideal GRP

ARotor Lab 10.00 - 15.00

Small-scale maritime thruster test bench, Sampo Haikonen
Aerostatic bearings: frictionless and non-contact motion, Mikael Miettinen
Big Rotor: Air bearing, Mechatronics project
Open source tool for modeling torsional rotor dynamics, Urho Hakonen
Wireless IoT sensors for rotor system condition monitoring, Ivar Koene
How to measure and mitigate electrical runout in electric motors? Kalle Kinnunen