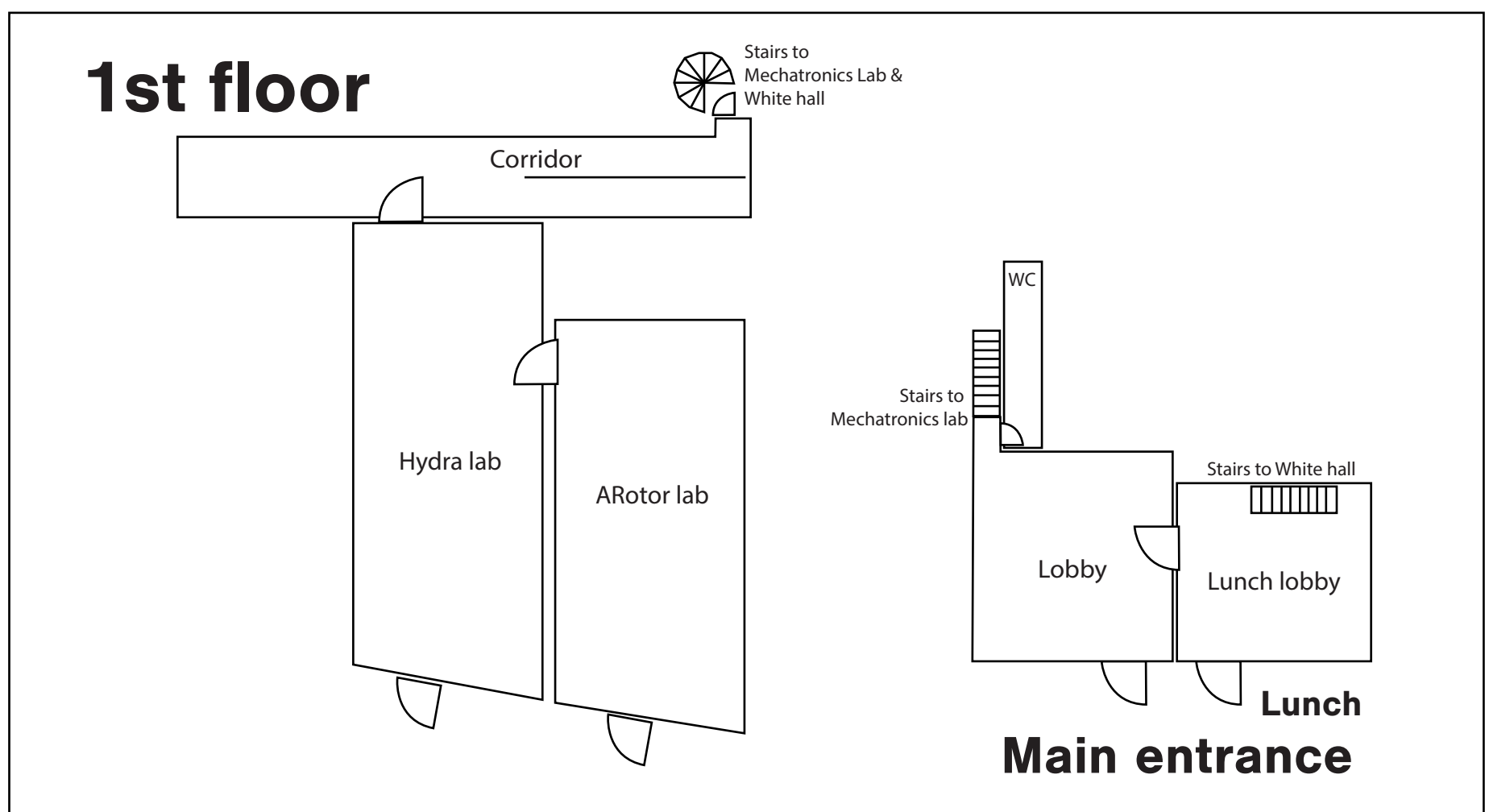
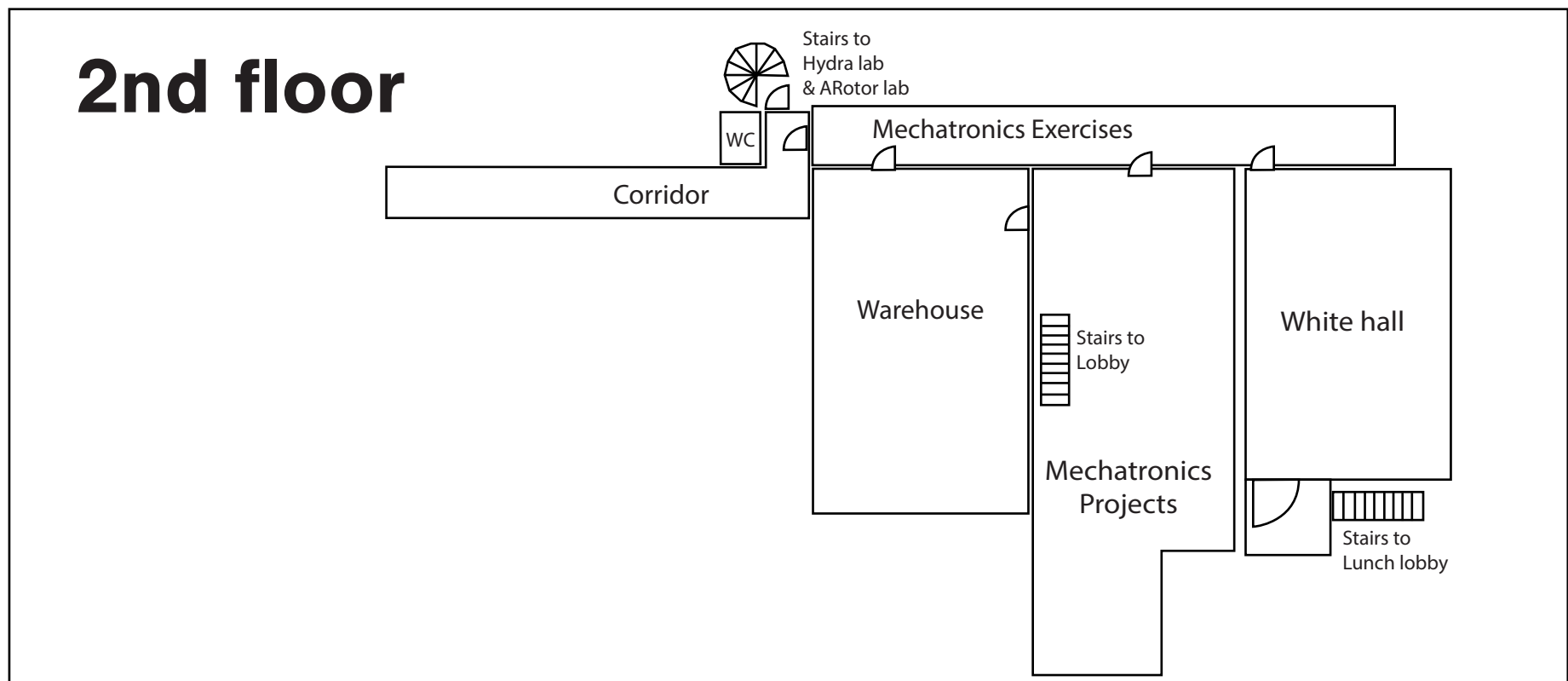


# Mechatronic Circus & Demo Day 2022

## Indoor map



### **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 Närvänen  
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  
Ilmatar crane in VR with Varjo & Oculus headsets, Riku Ala-Laurinaho  
Innovaatiosäätiö, 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