## Innovation Projects 5A EIS – PX505 – 2023-2024

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## August 2023







- 1. Al4RFID: Artificial Intelligence for better RFID localization
- 2. NavigateT: TurtleBot platform for navigation in an unknown environment
- 3. IT HAND: Design one or several autonomous systems based on data collection from a patient
- 4. **GO1Mapping:** Area mapping using GO1 quadrupedal robot
- 5. **LEctenna:** RF energy harvesting system
- 6. FlyBOLT: Embed the BOLT flight controller within a medium-size drone
- 7. MultiDrones: Coordination of multiple drones using Qualisys Track Manager
- 8. MapRF: UHF RFID Mapping and Localization
- 9. EMFI: ElectroMagnetic Fault Injection for attacking 32-bit microcontrollers
- 10. **CSAW'24:** Embedded Security Challenge
- 11. SmartBuilding: Smart Building management platform based on VOLTTRON
- 12. **EdgeAl4RFID:** The classification between crossing tags and non-crossing tags (which can be possibly moved inside the environment)
- 13. ClockG: Clock glitch injection for attacking 32-bit RISC-V controller
- 14. UpgradeTC: CubeSat payload software upgrade telecommand
- 15. **PCBdesign:** PCB Design for Real Time Data Acquisition