Smart Cabin

THE CONTEXT

Before flight tests, aircrafts must pass a long list of requirements. These tests require hundreds of meters of expensive cables to be plugged on various parts of the plane.

THE MISSION

Conceive and build a PoC of a wireless communication gateway to connect the test box on the plane to the ESAO workstation.

THE OUTCOME

Our prototype will allow faster testing procedures.
It will be able to:

- Communicate with the workstation via MK3 protocol
- Extract the information received by the test box
- Send commands from the workstation to the test box

THE TEAM

3 Computer and Network Engineering Students

+ Software development
+ Networking and Wireless Communications
+ AI, Security, Systems

3 Automatics and Electronics Engineering Students

+ Embedded software
+ Hardware components
+ Wireless communications

THE CLIENT

Sterela, an engineering services company

Airbus, European leader in aircraft production

Smart Cabin

THE CONTEXT

Before flight tests, aircrafts must pass a long list of requirements. These tests require hundreds of meters of expensive cables to be plugged on various parts of the plane.

THE MISSION

Conceive and build a Proof of Concept of a wireless communication gateway to connect the test box on the plane to the test workstation on the ground.

THE OUTCOME

Our prototype will allow fasterand cheaper testing procedures.
It will be able to:

- Communicate with the workstation via MK3 protocol
- Extract the information received by the test box
- Send commands from the workstation to the test box

THE TEAM

3 Computer and Network Engineering Students	3 Automatics and Electronics Engineering Students
+ Software development	
+ Networking and Wireless Communications	*+ Embedded software*
+ AI, Security, Systems	*+ Hardware components*
	+ Wireless communications

THE CLIENT

Sterela, an engineering services company	Airbus, European leader in aircraft production

Smart Cabin

THE CONTEXT

Before flight tests, aircrafts must pass a long list of requirements. These tests require hundreds of meters of cables to be plugged on various parts of the plane that cost money and time.

THE MISSION

Conceive and build a Proof of Concept of a wireless communication gateway to connect the test box on the plane to the test workstation on the ground.

THE OUTCOME

Our prototype will allow faster testing procedures.
It will be able to:

- Communicate with the workstation via MK3 protocol
- Communicate wirelessly with the test box on the plane
- Extract the information received by the test box
- Send commands from the workstation to the test box

THE TEAM

3 Computer and Network Engineering Students

+ Software development
+ Networking and Wireless Communications
+ AI, Security, Systems

3 Automatics and Electronics Engineering Students

+ Embedded software
+ Hardware components
+ Wireless communications

THE CLIENT

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