

# Léon Reboul

Fab Lab manager position

## EDUCATION

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### Fab Academy 2020

*How to make (almost) anything*

Saclay, France

*Expected Graduation: August 2020*

### University of Lorraine

*Master in complex systems engineering*

Nancy, France

*March 2017*

### ENSEM

*Engineer in automated systems*

Nancy, France

*March 2017*

## EXPERIENCE

### ONERA

*PhD student in aerial robotics*

Palaiseau, France

*Oct 2016 - Oct 2019*

- Find and track multiple moving targets using a fleet of UAVs

## PROJECTS

### Conservation drones, Fab Lab fleet

*Jan 2020 - Present*

- Design a conservation drone achievable in a Fab Lab

### "Do it yourself" associations

*Oct 2016 - Present*

- Caliban (robotic association), participated to Nantes maker campus 2019
- Club de modélisme de Saclay (model aircraft making and flying)
- Plasiclub (Fab lab of the association Planète sciences)

### Team leader in LES ENTREPRENEURIALES (student startup program)

*Oct 2014 - Mar 2015*

- Created and led the group "UAV to fight against outbreaks"
- Won the jury innovative startup prize at EST-HORIZON fair in Nancy

## SKILLS

### Languages

- French (Native language), English (TOEIC 945), Spanish (B2), Japanese (A1)

### Programming Languages & Softwares

- C++, C, Java, MATLAB, SIMULINK

### Digital fabrication

- CAD, Computer-Controlled Cutting, Electronics production & design, 3D Scanning and Printing, Computer-controlled machining, Embedded programming, Molding and casting and Machine design

## PUBLICATIONS

- Sébastien Reynaud, Michel Kieffer, Helene Piet-Lahanier, Léon Reboul. A set-membership approach to find and track multiple targets using a fleet of UAVs. 57th IEEE Conference on Decision and Control (CDC 2018), Dec 2018, Miami, FL, United States.
- Reboul, L., Kieffer, M., Piet-Lahanier, H., & Reynaud, S. (2019). Cooperative guidance of a fleet of UAVs for multi-target discovery and tracking in presence of obstacles using a set membership approach. IFAC-PapersOnLine, 52(12), 340-345.