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Brest, June 5, 2020

## Diploma TubMOOC

I, undersigned, Simon Rohou, Associate professor at ENSTA Bretagne engineering school, certify that Jean DUPOND has obtained successfully the diploma associated to TubMOOC, a Master 2 level MOOC on Constraint Programming with applications to robotics:

[www.simon-rohou.fr/research/tubmooc/](http://www.simon-rohou.fr/research/tubmooc/)

By the end of this course, Jean DUPOND acquired the skills:

- to use Interval Analysis and its implementation with Python or C++ using the Tubex library;
- to use Constraint Programming and build solvers for problems of localization and SLAM in robotics.

The four-weeks course, from June 8 to July 5 2020, corresponds to 40 hours of lessons and practice.

Signature