



Internship 6 months - Software Engineer

At InBolt we are developing a new tracking technology for tools that will increase the reliability of industrial manual processes. Our solution is a small hardware device that can be attached to the handle of any manual tool. Thanks to a cutting-edge computer vision based technology, our device can identify and track the tool's position continuously. It is also linked to a quality control software downloaded which validates in real time the quality of the tasks carried out.

Our story :

In september 2018, three students from Supaero / Ecole Polytechnique, HEC and ENS discovered that manual processes are a \$45bn problem for manufacturing industries. Their mission ? Solve the lack of reliability from manual processes by developing the first computer vision based tracking technology for tools.

Since the start of the journey, InBolt has filed 1 patent, developed a fully functional prototype, exhibited at VivaTech and Salon du Bourget, followed at 4-months pre-acceleration program at UC Berkeley, works with the top aerospace french industries and is in discussions with dozens of industrials in aerospace, rail, automotive and oil&gas like Tesla, Airbus, Safran, ArianeGroup, SKF, KUKA, Liebherr, etc. We are currently experiencing great traction and want to strongly accelerate the technological developments.

Internship details

Start date: January - March 2020. Length of internship: 6 months / Location: Paris / Shenzhen. InBolt is part of the HAX accelerator in Shenzhen, China. HAX is the World's First and Largest hardware accelerator program and more importantly, the most selective one.

Responsibilities

You will be in charge of developing and improving tracking algorithm (position precision, reliability, higher frame rates, etc.)

To achieve this goal you will :

- Test and optimize camera settings for our use case
- Implement filtering (Kalman) for sensor fusion
- Develop state of the art mesh to point cloud registration algorithm

Experience:

- Embedded firmware programming (C++)
- Wifi & networks knowledge
- SLAM and robotics knowledge appreciated
- Capacity to handle a good level of code quality and stability

What we love:

- Very strong team spirit - we spend most of our time together
- Strong working motivation - we have a sustained work pace
- Proactive and autonomous - "Get it done" attitude with will to overreach objectives

Recruitment Process: [send your resume and a few words about you to rudy.cohen@inbolt.fr](mailto:rudy.cohen@inbolt.fr)

1) Skype interview with the CEO and the COO

2) Physical interview with the CTO + technical test

The whole recruitment process should take no longer than a week.