



## Full Time Software Engineer

At InBolt we are developing a breakthrough tracking technology based on 3D vision. Our solution is a small sensor / hardware device that can track the position of the object it is attached on with a millimeter accuracy.

One of our first use case is the tracking of industrial hand tools when in use. This allows us to perform real-time quality control of manual operations (drilling, riveting, welding). We are also currently working on a 3D-based solution for vision guided robotic arms.

### Our story:

We are 3 former students, respectively from Supaéro/Ecole Polytechnique, ENS and HEC. In September 2018, we met during the X-HEC master's degree in Entrepreneurship and Innovation and discovered that manual processes are a \$45bn problem for manufacturing industries. As we started developing a solution, we quickly realized that our tracking technology had an incredible potential!

Since the start of the journey, InBolt has filed 2 patents, 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 space, aerospace, rail and automotive industries like Airbus, Safran, Renault, PSA, ArianeGroup, SKF, KUKA, Liebherr, etc. We are currently experiencing great traction and want to strongly accelerate the technological developments.

### details:

Start date: Septembre 2020

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 rate, 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
- Manage a team of vision software engineers

Skills we are looking for:

- Embedded firmware programmation (C++)
- Hardware acceleration experience
- Strong knowledge of SLAM algorithm
- 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 to rudy.cohen@inbolt.fr](mailto:rudy.cohen@inbolt.fr)

- 1) Rapid phone call with the CEO and / or the COO
- 2) Motivation and personality interview with the CEO and the COO
- 3) Technical test to realize at home
- 4) Technical interview with the CTO (success in step 3 is not a condition for proceeding to step 4)

The whole recruitment process should take no longer than 2 weeks.