



Looking for a full-time position in R&D software engineering. Available starting from March 2020.

Coding	Data Analysis	Environment	Control	Prototyping	Languages
C#, C++, Java, PHP Python, Matlab HTML/CSS/JS	Machine learning, Statistics, Image Processing	Basic linux command, ROS	Motion planning, SLAM	Solidworks, PCB design	French (Native) English (Proficient)

EDUCATION

- **Georgia Tech, US**
Aug 18 - Dec 19
MASTER'S IN ELECTRICAL AND COMPUTER ENGINEERING
Overall GPA 4.0/4.0
Courses: Machine Learning for Robotics, Digital Image Processing, Multi-agent Control
- **IMT Atlantique, FR**
Aug 16 - Dec 19
MASTER'S IN CONTROL ENGINEERING AND INFORMATION TECHNOLOGY
Ranked in top 5 of class
Courses: Human-Computer Interface, Mechatronics, Data Structures and Algorithms (Java), Statistics
- **CPGE Bellevue, FR**
Sept 13 - Jun 16
UNDERGRADUATE COURSES IN MATHEMATICS AND PHYSICS
Ranked in top 5 of class
Courses: Algebra, Analysis, Mechanics and Dynamics, Object Oriented Programming (Python), Database

EXPERIENCE

- **MindMaze, CH**
Feb 19 - Aug 19
R&D ENGINEERING INTERN
Conception of a data model for neuroscience application and design a game for post-stroke rehabilitation:
 - Recorded and extracted data from Kinect and games to support neuroscience research
 - Set up asynchronous file transfer to a Azure cloud server to centralize data access
 - Conceived the verification and validation protocol for the recorded data
 - Implemented an API for patient performance metrics from kinematic data using Unity and C#Result: Enabled the registration of patient tracking data and game-related properties for six different games for research and usability reporting
- **Xeelas, NL**
Jun 18 - Dec 18
EMBEDDED SYSTEM INTERN
Implementation of a remote access solution for IoT devices:
 - Developed an embedded dashboard in a Linux environment, using PHP, HTML/CSS/JS
 - Conceived hardware for lithium batteries and solar panel testing, using Arduino and Altium Design
 - Prototyped waterproof enclosures for outdoor installation using Solidworks and 3D printing
 - Implemented a continuous integration pipeline for test automation using C++ and PythonResult: Enabled customers to monitor IoT devices remotely to reduce maintenance time
- **Ilotopia, FR**
Feb 18 - Jun 18
VIRTUAL REALITY DEVELOPER
Conception of a virtual reality tool to landscape a neighbourhood park:
 - Conceived and developed an ergonomic user interface using C#, Unity and HTC Vive
 - Designed code architecture and set up system integrationResult: Proposed a simulated neighbourhood to 50 people including the Mayor

PROJECTS

BIONIC PROSTHETIC ARM

Aug 19 - Present

Biomedecial Engineering club. Conception and programming of a bionic prosthetic arm controlled by EMG sensors.

NORDE - ELECTRIC SKATEBOARD COMPANY

Aug 18 - Aug 19

Personal project. Foundation of e-commerce for electric skateboard components. Designed and developed a website using PHP, HTML/CSS/JS. Dimensioned and modeled mechanical parts for CNC machining using Solidworks. <https://norde.cc/calculator.php>

PROBABILISTIC MAPPING SIMULATION

Oct 18 - Nov 18

Academic project. Robot exploration of a simulated space to determine the slope of the floor and position of obstacles using C++, ROS, Hough Transform, and Bayesian Fusion. Detected obstacle position with incertitude of 5mm.

MOTION PLANNING

Jan 18 - Jul 18

Academic project. Implemented a wireless control for a wheelbase robot, that follows a path drawn by the user. Designed an intuitive user interface for path drawing using Matlab. Converted path to PWM commands. Transmitted commands to an Arduino controlled robot