ARTHUR FINDELAIR

ASPIRING MACHINE LEARNING ENGINEER
SEEKING ENTRY-LEVEL OPPORTUNITY

Chicago, Illinois | 312-619-1343 | afindelair@hawk.iit.edu

EDUCATION

Master of Computational Engineering – Illinois Institute of Technology **Chicago, USA, 2021**
Expected graduation with specialization in Optimization, Machine Vision and Decision Making.
Relevant coursework: Machine & Deep Learning, Statistical Signal Processing, OOP & Machine Learning

Institut Supérieur de l'Aéronautique et de l'Espace **Poitiers, France, 2020**
Ecole Nationale de Mécanique et d'Aérotechnique (ISAE-ENSMA)
Expected graduation with Engineering Degree equivalent to MS in Aeronautical Engineering, specialized in Software Engineering and Avionics, March 2021.

Classes Préparatoires aux Grandes Ecoles (CPGE) **Lycée Kleber, Strasbourg, France, 2018**
Undergraduate selective and intensive course in mathematics, physics and engineering science in preparation for the nationwide competitive entrance examinations to leading French engineering schools.

Baccalauréat Scientifique **Lycée Henri Meck, Molsheim, France, 2016**
Equivalent to a high school diploma specialized in science with highest honors ("Mention Très Bien").

SOFTWARE PROJECTS

(see more on my GitHub profile: www.github.com/ArthurFDLR*)*

Machine Learning Research Internship *(2020)* *Python, TenserFlow, ASP*
- Developed and fine-tuned a hand pose classifier able to precisely detect more than 24 gestures.
- Deployed a simulated environment for human robot-collaboration based on Answer Set Programming.

Finalist of the Black-Out Challenge by SAFRAN *(2019)* *QT, Python*
- Created a working prototype of a positioning system based on Bluetooth beacons.
- Connected car's trip computer to a Raspberry Pi to utilize inertial and speed data in a dead-reckoning algorithm.

Autonomous Robot competing for the French Robotic Cup *(2018 - 2020)* *C++, Python (OpenCV)*
- Implemented an autonomous robot's real-time control system, based on LIDAR obstacles avoidances.
- Managed an 8 members team with a 2,000€ budget from conception to delivery

Poker bot adapting to opponent strategy *(2018)* *Ada, Python*
- Implement Monte Carlo method to determine its winning chances for a given hand and optimize its actions.

EXPERIENCE ADDITIONNELLE

Internship at Punch Powerglide as workman *(2019)*
- Worked on a transmission assembly line.

Member of ENSMA's student committee, catering manager
- Collaborated in a 4 members team, delegate tasks and organize food providing for up to 200 persons.
- Take part to the organization of Freshmen's weekend with a 60,000€ budget.

Chairperson of ENSMA's motorbike club
- Organized biker meet-up and motocross initiation.

Drones manager at ENSMAERO (aeromodelism club)
Taught drone construction and flying basis.

Languages and Technologies

Proficient: Python, C++ *Familiar:* Ada, C#, Fortran, SQL
Visual Studio Code, GIT, Linux, PlatformIO, CATIA, Altium CircuitMaker, Pack Office, Adobe ecosystem

Spoken languages

French (Native Speaker), English (Fluent, TOEIC 970/990, TOEFL 106/120), Italian (Beginner)