

THYBAULT ALABARBE

36 avenue Paul Langevin,
Fontenay-aux-Roses, 92260, FR
email: thybault.alabarbe@gmail.com
GitHub: <https://github.com/Soulthym>



EDUCATION

- **2015-2020** → Ivry-sur-Seine (France), ESIEA:
Graduate School of Engineering: 5th year
- **2018** → Ivry-sur-Seine (France), ESIEA:
Companieros & SII, **Handimanager Label**, management of handicapped people
- **2016** → Ivry-sur-Seine (France), ESIEA:
TOEIC-915
- **2016** → Igny (France), Lycée Saint-Nicolas:
BAFA level 1
- **2015** → Bourg-la-Reine (France), Institut Notre-Dame:
Scientific High School Diploma (Biology) with merit
- **2010-2012** → Bourg-la-Reine (France), Institut Notre-Dame:
Cambridge (PET & FCE)



LANGUAGES

- **Native:** French
- **Bilingual:** English
- **Conversational:** Spanish
- **Beginner:** Japanese, Ancient Greek, Latin

PROJECTS

- **2018-2019** → TEEC-Eureka Effect
Detecting understanding and information propagation within a group of students in videos of E-learning sessions
Publication at ACII2019 & Conference
- **2018-2019** → Inwibe
Creation of a search engine based on natural language processing for Startup/Corporate's interest matching
- **2018** → *FlaminCode*: bash-3D-viz (*POSIX shell, bash, awk, sed*)
PoC & Contest: Manipulating 3D objects in the terminal
- **2018** → Smart Touch (*Python, OpenCV*)
Tactile Projector with vocal interface

SKILLS

Software: Office Suite, Vim, L^AT_EX(1k lines) & Groff (3k)
Operating System: Linux
Programming (lines of code):
→ Mastered Languages:
Axe Parser(40k lines), python(20k), asm z80(18k), C(5k), Ti-Basic(5k), [POSIX] shell(3k), Mathematica(2k), awk(1k)
→ Learning:
VHDL(8k), ruby(7k), C++(7k), vimscript(2k), java(900), sed(500), Haskell(200), RUST(200)

INTERESTS

Circus (14 years): Juggling
Music (4 years, self-taught): Guitar, Bass
Rubik's Cube: Speed Cubing
Magic: Card manipulation
Programming
Astronomy

ASSOCIATIVE & PROFESSIONAL EXP.

- **2018-2019** → Ivry-sur-Seine (France) & Bangkok (Thailand)
Laboratory: ESIEA-LDR (machine Learning, big Data, mobile Robotics) & **KMUTT** (King Mongkut's University of Technology Thonburi)
Role: "Student Researcher" in Artificial Intelligence
Mission: **Technologies for Education & Teaching in Context-** Creating a facial tracker and emotional extractor to facilitate detection and analysis of the propagation of understanding in a group of students
Publication & Conference: ACII2019 - "*Joint Analysis of verbal and nonverbal interactions in collaborative E-Learning*" (M. Piot, T. Alabarbe, J. Gonzalez, C. Le Bail, L. Prevost, J. Bourdeau, F.X. Bernard, M. Baker, F. Detienne)
Tools: python, pytorch, TensorFlow, Keras, OpenCV, Siamese Networks, Variational Auto-Encoders
- **2018-2019** → Paris
Freelance: **Inwibe**
Role: Natural Language Processing Developer (NLP) & Web Maintenance
Missions: Creation of a search engine based on Natural Language Processing technologies, to boost Corporate/Start-Up relationship, and maintenance of said Web Platform
Tools: python, gensim, spaCy, TensorFlow, Ruby on Rails, Django
- **2018-2019** → Ivry-sur-Seine (France)
Association: ESIEA-DTRE (Robotic Departement)
Role: Active Member
Mission: Developing a robot featuring autonomous movement, and restoring an oscilloscope as a digital screen
- **2017-2018** → Ivry-sur-Seine (France)
Laboratory: ESIEA-LDR (machine Learning, big Data, mobile Robotics)
Role: "Student Researcher" in Artificial Intelligence
Mission: Transfer Learning applied to emotional detection in an image
Tools: python, OpenCV, TensorFlow, Keras, VGGFace
- **2016-2019** → Ivry-sur-Seine (France)
Association: ESIEA-BDA (Arts Office)
Role: Active Member
Missions: Giving drawing, bass, and magic lessons. Giving magic shows. Active participation to the association's events and their communication
- **2016** (1 month) → Paris
Laboratory: ESIEA-ARNUM (Digital World and Arts)
Role: Researcher in Artificial Intelligence
Mission: Research on Deep Learning technologies applied to text and image understanding and generation, in arts
Tools: Python, TensorFlow, Keras, Caffe, Theano
- **2015** (2 months) → Bagneux
Association: **PPCM** (Smallest Circus in the World)
Role: Juggling Teacher
Mission: Giving juggling classes to children, as a solidarity action