

## THYBAULT ALABARBE

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## EDUCATION

- **2015-2020** → Ivry-sur-Seine (France), ESIEA:  
**Graduate School of Engineering:** 5<sup>th</sup> 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<sup>A</sup>T<sub>E</sub>X(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