THYBAULT ALABARBE

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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

- **2019-2020** → NCM-Forest
  Compative study of FPGAs and GPUs for the implementation of the NCM-Forest algorithm
- **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, LaTeX(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