

Benoît Brummer

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Education

09/2016 **Université catholique de Louvain**, Louvain-La-Neuve, Belgium

– 2019 **In-progress: Master in Computer Science – Major in Artificial Intelligence**

Thesis: Image denoising using convolutional neural networks (CNN), and the "Natural Image Noise Dataset" collected for this purpose. Extension to generative adversarial networks (GAN) and image compression.

Electives:

- data mining and decision making
- mining patterns in data
- open-source strategy for software development
- image processing and computer vision
- design and architecture of digital electronic systems
- artificial intelligence and machine learning seminar
- bioinformatics
- multicore programming
- open-source project

01/2014 **University of Central Florida**, Orlando, Florida

– 05/2016 **Graduated: Bachelor of Science in Engineering – Computer Engineering (B.S.Cp.E.)**

Electives:

- robot vision
- artificial intelligence
- programming embedded systems
- parallel and distributed processing

2010–2013 **Valencia College**, Orlando, Florida

Graduated: *Associate in Arts*

2009–2010 **Broward College**, Davie, Florida

Relevant interests

Open-source, artificial intelligence, embedded systems, photography, electronic art

Experience

2018 – **IntoPIX**, Mont-Saint-Guibert, Belgium *Software engineer intern*
Working on the image encoder/decoder software/hardware validation platform

2018 **LSM Conseil**, Ottignies-Louvain-la-Neuve, Belgium *Embedded software consultant*
Developed an IAP bootloader for the client's custom STM32 platform to perform optional USB firmware upgrade followed by boot to application without user input.

2006–2017 *Assistant at Toscana Ristorante Pizzeria, marketing at Transcontinental Car USA, sales associate at Tommy Hilfiger, delivery expert at Domino's Pizza, sales associate at Calvin Klein, recovery coworker at IKEA, deli clerk at Publix, engineering source specialist at Cameron Resources Group, biker at Deliveroo*

Main projects

2018–pres. **Master thesis on image denoising** using convolutional neural networks and the **Natural Image Noise Dataset** (commons.wikimedia.org/wiki/Natural_Image_Noise_Dataset)

2017–pres. **commons.wikimedia.org/wiki/User:Trougnouf : photography**
Documenting life, improving Wikipedia articles' illustrations, maintaining the categories database, reviewing quality images candidates

08/2015 **Sensewalk 9000**

– 05/2016

- Developed a device which helps the visually impaired navigate through life
- PCB design using KiCAD, hand-assembly, STM32 development using Eclipse and IAR

12/2015 **The Christmas Project**: Christmas display using an ATmega328p and recycled material

2005 **Bananouille²**: Created a website to learn XHTML, CSS, PHP, MySQL, and web-hosting

Properties and technical skills

Nationalities: Citizen of **Belgium** (EU), the **USA**

Languages: Fluent in: **French, English, Python, C/C++, Java, Scala, R** (some Bash, Lua, asm)
Software: Linux, pytorch, stm32, OpenAI Gym, mediawiki, darktable, GIMP