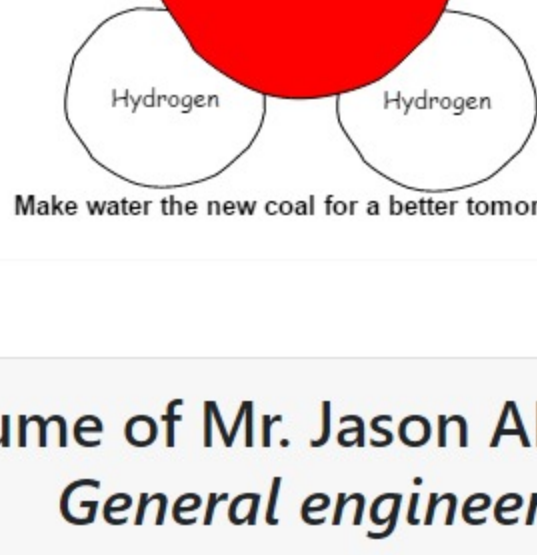


# HOLOMORPHE

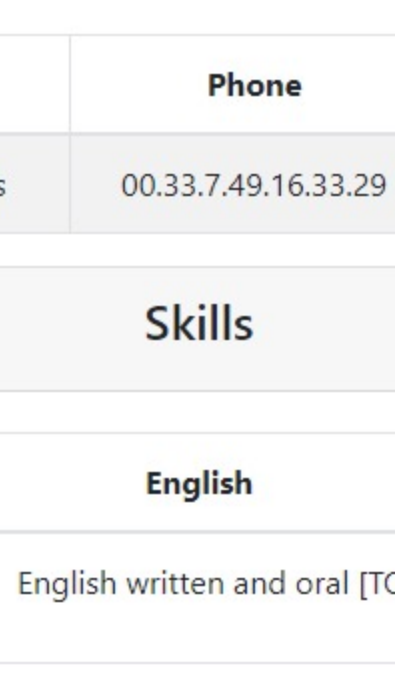
Think about Stanley Meyer's water electrolyser !



Make water the new coal for a better tomorrow

## Resume of Mr. Jason ALOYAU

General engineer



Identity	Postal address	Phone	Email	Nationality
Mr. Jason ALOYAU	31 Avenue de Ségur 75007 Paris	00.33.7.49.16.33.29	jason.aloyau@holomorphe.com	French

### Skills

<b>English</b>
<ul style="list-style-type: none"><li>English written and oral [TOEIC]</li></ul>

### Predilection programming languages

- Python / Java / JavaScript

### Office

- Microsoft Excel, Word, PowerPoint, Access, Outlook Software
- Open Office Calc, Writer Software
- IntelliJ Software for Java / Python Python Software
- Pencil software to make simplified schemes / GanttProject software for project management

### Front-end

- HTML markup language / CSS / JQuery Framework / Django Framework / MJML Framework for Email Responsive
- Visual Studio Software Code / Angular Framework 7 / Bootstrap / Leaflet.js
- Vis.js / Artyom.js / Flowchart.js
- Tomcat server / Apache server / Nginx server

### Back-end

- Python / Flask / BeautifulSoup / pdfkit / xlsxwriter / xld / pywinauto / Hyperledger Sawtooth
- Java / Maven / Gradle / Spring / Jsoup / Selenium WebDriver
- JavaScript / Visual Basic / C# / TypeScript

### Unit and quality tests

- Unittests with Python / JUnit with Java / Mockito with Java / WireMock with Java
- SonarQube

### Database systems

- MySQL / MySQL Workbench
- NeO4j, graph database server / MongoDB, documents database server

### DevOps

- Docker / Git

### Artificial intelligence

- Data mining / Knowledge management / Robotic Process Automation
- Cloud computing / Speech recognition / Computer vision

### Mobile

- Android / Kivy

### Embedded systems

- Raspberry Pi
- Arduino Uno and Arduino Yun / OpenWRT OS

### Computer Aided Design

- FreeCAD / Skidli / KICAD / BIM

### Version management

- Git / GitHub : <https://github.com/Jay4C>

### Networks and systems

- Windows / Linux
- IT Protocols [HTTP, HTTPS, TCP, IPv4, IPv6, SSH, FTP, SFTP, SCP, SMTP, IMAP, DHCP, Modbus TCP, Modbus RTU]
- MinimalModbus with Python / Jlibmodbus with Java
- Routeur 4G / Port Forwarding / DynDNS / Dongle 3G
- Wireshark / PuTTY / WinSCP / Postman / TeamViewer / VirtualBox / Tor / Angry IP Scanner

### Project management and communications

- Brainstorming / FreeMind / Pencil / UML diagrams/ ArgoUML
- GanttProject / Planning of a stages of a project
- Project management / Operations management / Agile management / Quality management
- Customer needs analysis / Establishment of a specifications book
- Writing a technical support / Writing a knowledge database

### Law

- Tax code in France / Monetary and financial code in France / Environmental code in France / Energy code in France
- Code of relations between the public and the administration in France / Code of construction and housing in France
- Code of urbanism in France / Code of posts and electronic communications in France /
- Website "www.legifrance.gouv.fr" / Website "www.lexadin.nl" / Website "https://europa.eu/european-union/law/find-legislation\_fr"

## Experiences

Title: Versatile IT development Period: May 2020 - in progress Professional status: President Company: Holomorphe - Paris
<ul style="list-style-type: none"><li>Python application development to create mechanical parts precision for hydrogen technologies with software FreeCad available on <a href="https://github.com/Jay4C/python-macros-for-freecad">https://github.com/Jay4C/python-macros-for-freecad</a></li><li>Python application development for robotic process automation on <a href="https://github.com/Jay4C/Web-Automation">https://github.com/Jay4C/Web-Automation</a></li><li>Development of a Python application to recover all suitable plots for injecting synthesis methane into a natural gas distribution network in France</li></ul>

Title: Versatile computer developer Period: February 2019 - April 2019 [3 months] Professional status: employee Company: Pass Technology - Paris
<ul style="list-style-type: none"><li>Development of an application for the BIM (Building Information Modeling)</li></ul>

Title: IT engineer Period: September - November 2018 [3 months] Professional status: employee Company: Kiril - Ermont
<ul style="list-style-type: none"><li>Development of a Java web application to use the electronic signature</li></ul>

Title: Visiting agent Period: April - September 2018 [6 months] Professional status: Freelance Company: FLATSY - Paris 18
<ul style="list-style-type: none"><li>Ensure visits to real estate</li><li>Write the report of the visit</li><li>Advise visitors on the work to be done</li></ul>

Title: Reading and writing on an automaton in Modbus Period: June - July 2018 [2 months] Professional status: Freelance Company: Refuel S.A.S. - Trappes
<ul style="list-style-type: none"><li>Development of several features to read and to write on a programmable controller via the Modbus TCP protocol with Java language in WIFI link</li></ul>

Title: Automatic generation of energy report Period: November - December 2017 [2 months] Professional status: Freelance Company: SETEC SMART EFFICIENCY - Paris
<ul style="list-style-type: none"><li>Develop a Java program to generate an energy report</li></ul>

Title: Verification of the relevance of data Period: June - July 2017 [2 months] Professional status: Freelance Company: Gameloft - Paris
<ul style="list-style-type: none"><li>Development of a Visual Basic macro for the consistency of the data entered in several Excel files and consolidate these data in one Excel file for human resources</li></ul>

Title: Real estate negotiator Period: October 2016 - February 2017 [5 months] Professional status: Freelance Company: Cabinet Habillis - Saint-Pierre de la Reunion Island
<ul style="list-style-type: none"><li>Go out on the ground to find building land</li><li>Go on the ground to find houses to renovate</li><li>Go on the ground to find houses for rent</li><li>Retrieve cadastral information from a plot of land to reach an owner</li><li>Prospecting for homeowners / Prospect professionals</li><li>Prospect individuals / Ensure a visit to a property</li><li>Advise a salesperson to address tax strategies</li><li>Advise a buyer to address mortgage strategies and taxation</li></ul>

Title: Supervision service Periods: April - July 2015 and February - July 2016 [10 months] Professional status: Trainee Company: Agronergy - Paris
<ul style="list-style-type: none"><li>Development of a computer application to retrieve data remotely on a meter Kamstrup via Modbus RTU network protocol Connect a Raspberry Pi board with the Kamstrup energy meter through a USB to converter RS485 and electrical wires Ensure power and network cabling for the Raspberry board Install a protective box to protect the Raspberry board in the boiler room Install a 3G dongle in the protective box to power the Internet source of the Raspberry board Development of a computer application with the Python language Development of a computer application with the Bash Script language Development of a computer application to store energy data in a MySQL data on an SSD VPS hosted by OVH Development of a website to visualize the information of the meter Management of a MySQL database system Contact Digi Router WR21 product support Managing a Digi Router WR21 Setting the Digi Router WR21 to send its dynamic IP address to a domain name dynamic Managing a domain name subscription with No-IP.com Read technical documentation written in English Contact suppliers in English to understand how a product works</li><li>Connect an Arduino Yun board with an RJ45 cable to the application server of a biomass boiler Management of a Linux Ubuntu virtual private server hosted by OVH Development of a computer application with the C language Collect information about a biomass boiler with the Modbus TCP protocol Creation of an SSH connection tunnel on the Arduino Yun board with the Yaler solution Management of a MySQL database Bash Scripting to Automate Tasks on Linux Ubuntu Virtual Private Server Create Bash scripts to automate tasks on an Arduino Yun board Implementation of several deferred programs thanks to cronjobs on a Linux Ubuntu virtual private server Development of a website to see the information of the biomass boiler stored in the base of MySQL data Read technical documentation written in English Contact suppliers in English to understand how a product works</li></ul>

## Trainings

Title: Java / JEE training Period: April - July 2017 [4 months] Training center: INTI Training - Paris Tour Montparnasse
<ul style="list-style-type: none"><li>Learning of Java IT Language / Learning of the object-oriented design</li></ul>

Title: General engineer diploma Period: September 2013 - August 2016 [3 years] Training center: Superior School of Engineers Léonard de Vinci - Paris La Défense
<ul style="list-style-type: none"><li>First year (numerical analysis, english, chinese, process management and optimization, financial management of the company, introduction to macroeconomics, modeling and simulation of dynamical systems, MVC (data and interfaces), PING, object program and advanced algorithm, deformable solids, statistics, signal processing, automatic, technologies for energy conversion, applied thermodynamics, heat transfer, project management and management, sustainable development, architecture and embedded systems, graphs and operations research, finite element methods, numerical methods for the engineer, optimization)</li><li>Second year (electrotechnical, fet introduction project, fet program, hance term 14 renewables, network control, renewable energy, energy fundamental physical principles, sensors and Embedded systems, simulator, smart and metering energy consumption analysis, sustainable and life cycle, intership)</li><li>Third year (english, measuring chain and metrology, change management, home automation and building automation, internet of things, introduction IP, introduction to Linux, introduction to web services 3.0, energy financial markets, marketing yourself, industrial innovation project, smart buildings for energy, smart grids, smart objects for well-being, energy storage, intership)</li></ul>

Title: Preparatory classes for the superior schools Period: September 2011 - August 2013 [2 years] Training center: Lislet Geoffroy High School - Saint-Denis of the Reunion Island
<ul style="list-style-type: none"><li>Engineering sciences for the first year (Study of the design of complex and industrial systems (phones/smartphones, drones and robots...))</li><li>Mathematics for the first year (Sequences, continuity, limits of functions, differential equations, integrals, series, geometry of plane and space, vector transformations of plane or space, vector spaces, matrices, probabilities in a finite universe, random variables on a finite universe)</li><li>Physics-chemistry for the first year (harmonic oscillator, signal propagation, infinity diffraction, gauss conditions, spherical thin lenses, eye, electrical circuits in the ARQS, first-order linear circuits, damped oscillators, linear filtering, motion of a point, motion of a solid, law of momentum, energetic approach, motion of charged particles, kinetic momentum, first principle, energy balance, second principle, entropy balance, thermal machines, perfect crystal model, metals and metal crystals, ionic solids, oxidants and reducers, redox reactions, acid-base reactions, potential-PH diagrams)</li><li>Computer science for the first year (Study of digital engineering, programming, design, analysis of algorithms, solving numerical problems and transmitting encrypted and cryptographic data)</li><li>English for the first year</li><li>French for the first year</li><li>Mathematics for the second year (linear algebra (determinants, reduction of endomorphisms and matrices), prehilbertian and euclidean spaces, vector functions of a real variable and parameterized curves of the plane, generalized integrals, numerical series, discrete probabilities)</li><li>Physics-chemistry for the second year (thermodynamics and fluid mechanics applied to thermal machines (fluid statics elements in a galilean reference frame, differential expression of thermodynamic principles, state diagrams of pure real fluids, description of a fluid in stationary flow in a pipe), electronics (stability of linear systems, feedback, oscillators, digital electronics), optics (scalar model of light waves, superposition of light waves), electromagnetism (electrostatic, magnetostatic), electrochemistry)</li><li>Engineering sciences for the second year (association of pre-actuators and actuators, programmatic control, functional description of information processing systems: information, sensors, materials, discrete linear systems, modeling of an electromechanical conversion chain, geometric modeling of the displacement of the points of a deformable solid, modeling of interior actions to a solid (cohesion twister), dynamic modeling of solids)</li><li>Computing sciences for the second year</li><li>English for the second year</li><li>French for the second year</li></ul>

Title: Terminal S Program Period: September 2010 - August 2011 [1 year] Training center: Roland Garros High School - Le Tampon of the Reunion Island
<ul style="list-style-type: none"><li>Philosophy (consciousness, the unconscious, desire, art, work and technique, religion, demonstration, the living, matter and spirit, truth, society and the State, justice and law, freedom, duty, happiness)</li><li>French</li><li>English</li><li>Mathematics ( sequences, function limits, continuity over an interval, intermediate value theorem, derivative calculations, sine and cosine functions, exponential function, natural logarithm function, integration, complex numbers, geometry in space (straight lines and planes, vector geometry, scalar product), conditioning, independence, notion of density law from examples, fluctuation interval, estimation, arithmetic, matrices and sequences)</li><li>Engineering sciences (analyze the need, analyze the system, characterize the deviations, identify and characterize the quantities acting on a system, propose or justify a model, solve and simulate, validate a model, justify the choice of an experimental protocol, implement an experimental protocol, search and process information, implement communication)</li><li>Civic, legal and social education (early life, patients, doctors, care institutions, end of life, history and actuality of secularism, sectarian excesses and fundamentalism, common culture and cultural diversity, money and financial morality, lifestyles and social commitment, violence and sport, youth, work)</li><li>Physical education and sports</li><li>Physics-chemistry (waves and particles, wave characteristics and properties, spectral analysis, time, movement and evolution, structure and transformation of matter, energy, matter and radiation, official program : <a href="http://cache.media.education.gouv.fr/file/special_8_men/99/0/physique_chimie_S_195990.pdf">http://cache.media.education.gouv.fr/file/special_8_men/99/0/physique_chimie_S_195990.pdf</a>)</li><li>Computer science and digital sciences (binary representation, boolean operations, digitization, formats, compression, structuring and organization of information, persistence of information, non-rivalry of information, simple algorithms, more advanced algorithms, data types, functions, program correction, description languages, computer architecture, networks, introduction to robotics)</li></ul>

## Center of interests

- Technology / Patents
- French law / European law / International law
- Physics / Mathematics / Finance / Commerce / Economy / Management / Marketing / Spirituality / Ufology / Free energy devices

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