

Curriculum Vitae, Emile Victor

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Brisbane, Queensland

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Education:

Bachelor of Engineering: Software Systems & Aerospace at the University of Queensland (graduated with Honours, 2008-2013)

Semester 1, 2011 GPA was 6.0. Received Dean's Commendation for high achievement

Semester 1, 2012 GPA was 6.33, Received Dean's Commendation for high achievement

Semester 2, 2012 GPA was 6.4, Received Dean's Commendation for high achievement

Marist College Ashgrove, Graduated with an OP 5 in 2007.

Attended the University of Bourgogne (the CIEF institute), France in early 2010.

Current and Previous Experience:

2013



Founder, Pitot.io is a website for frequent flyers, running on an SaaS model. The website allows frequent flyers to log and map their history of flights, see statistics and see others' information. The website is also being extended to function as a flight logging system for pilots.



Permanent iPhone/Android software engineer (August – Present)



Contract Gea-Interactive Ruby on Rails software engineer (5 months)

Finalist for EADS/Airbus PROGRESS graduate program, interviewed in Toulouse, France.

December 2011-January 2013



Student Software & Aerospace Engineer at Boeing Defence Australia (Boeing Defence, Space & Security, Boeing Research & Technology).

For detail on the projects that I undertook while with Phantom Works and Boeing Research & Technology, please see the *projects* section.

Australian Government Restricted Level Security Clearance (AGSVA)

2012

Ruby on Rails application programmer for TownSqr, a startup which aims to revolutionize the way that corporate and private donations are made to charities.

Computer Skills:

- Languages:
 - C++ (highly skilled)
 - Objective C (highly skilled)
 - Python (skilled)
 - PHP (skilled)
 - [AVR] C (moderate)
 - SQL (skilled)
 - Java (skilled)
 - Ruby (highly skilled)
 - Ada (elementary)
 - Unix shell scripting (moderate)
 - HTML (highly skilled)
 - jQuery/Javascript (highly skilled)
 - CSS (highly skilled)
 - LaTeX (skilled)

- Unix competence suitable for setting up a web server remotely and manually configuring DNS, among other related tasks.
- Frameworks:
 - Qt (highly skilled)
 - Ruby on Rails (highly skilled)
 - Android (highly skilled)
 - iOS (skilled)
- Programs:
 - Adobe Master Suite
 - FTP clients
 - Visual Studio
 - VNC clients
 - QtCreator
 - Eclipse JDT/PDT/CDT
 - unix terminal

Extra-curricular:

- Vice-president of the UQ Photography Society
- Rover Scout with St John's Wood Rover Crew
 - Co-coordinator of Urban Challenge, a city-wide, weekend long activity for roughly 150 venturer scouts.
- French speaking, with professional level speaking proficiency. I also hold a French passport.

2010/2011/2012 Conferences and Events attended:

- ICAS 2012
- AYAF Aerospace Futures 2010
- AYAF Aerospace Futures 2012
- TEDxCanberra, 2010
- Volunteer at TEDxBrisbane, 2011
- Avalon Airshow 2011 (Trade Pass)

Professional Organisations:

- Student Associate of the Royal Aeronautical and Engineering Society (RAeS) – Australian Division
- Member of Engineers Australia
- Member of Australian Youth Aerospace Association
- Member of Space Generation Advisory Council

Current projects and notable information:

- Self-run projects for Boeing
 - An automated Foreign Object Detection system capable of detecting small objects on a runway at speed from a moving aircraft, using 3D matrix laser scanning, image processing and recognition. With a \$600 budget I was able to create a system which was able to pick up five centimetre long objects at a speed of 50km/h, photograph them, plot them on a map, audibly alert the operator and send an alert over the network along with an image of the object. It was written in C++ and Qt. This also was used for my university Thesis project.
 - A gesture recognition and user interface for Boeing products, developed for Boeing Phantom Works, removing the need for a user to be in contact with any peripheral when controlling certain systems in use today by Boeing.
- Assistant – UQ, an Android application for UQ students which performs a number of complicated functions – currently selling well on the Google Play store. Used by over 1400 people on both iPhone and Android.
- Wireless sensor network: self-localizing roaming robot
- Pitot.io, a website designed for frequent flyers – provides statistical analysis, charts and mapping for a monthly subscription.
- Quadrotor UAV, F450 with attached stabilised FPV and GoPro setup – running on OpenPilot.

Referees:

- Craig Pepper, International Tech Lead for Boeing Phantom Works (SAL Program)

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- Brendan Williams, Research Program Lead for Boeing Research & Technology, Australia
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