

Career Summary

March - July 2009	Laboratory Biomis/Satie – France Study and conception of cell biochips
August 2008 - January 2009	THALES Australia Limited - Sydney Systems engineer – full time
January 2007 – August 2008	THALES Microelectronics - France Manufacturing engineer – full time
June – September 2006	Big Apple Café - Cairns - Australia
June 2005	Bretagne ateliers – France Factory-floor traineeship
Summer 2003 – 2004 – 2005	Summer jobs (waitress, room attendant, etc.)

Languages & skills

French:	mother tongue
English:	fluent (9 months working in Australia, TOEIC: 890 out of 990)
Spanish:	skills

Computer skills:	MS Excel; MS Word; MS PowerPoint; MS Publisher: Advanced CAD (CATIA): Advanced C++ Language: Beginner PLM & ERP : Agile, Windchill and Prelude
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Professional skills and qualities

- Demonstrated ability to work effectively in a team environment.
- High level of enthusiasm and commitment to successfully work toward individual and company goals.
- Strong interpersonal skills and a proven ability to build successful client and teamwork relationships.
- Detail-oriented
- Team management skills
- Willingness and ability to adapt to new environments

Professional experiences

THALES Microelectronics - France (Jul 2007 - Aug 2008) – full time

Thales Microelectronics is the "Centre of Excellence" in microelectronics for the Aerospace Division of the Thales group. The company designs, engineers, integrate and tests electronics systems for the Defense, Civil Aviation and Space industries.

Manufacturing engineer - electronic airborne systems

Key responsibilities:

- Write consistent manufacturing **documentation**
- Design, install and commission new **production equipments**
- Drive **manufacturing process** changes and upgrades
- Ensure that all aspects of an operation or process meet **specified regulations**
- **Train operators** to new products then accompany them throughout the lifecycle.
- Work closely with the **customers** and **lead audits** (PRR, FAI)
- Select, manage and work with **sub-contractors**
- **Manage the configuration**: bill of materials, documents, specifications. **PLM Expert**

⇒ I worked closely with the operators to help them technically but mainly to have them participate to the process definition and upgrades, the documentation writing, and the production routing definition. I ask for their opinion so they are introduced to the product and feel involved in the project.

Key achievements:

- Introduced in production and maintained 12 airborne systems
- Designed, ordered and tested 16 equipments
- Reduced assembly time of the main product by **20%** using **VSM** and **FMEA**
- Worked with the client (R&D) to review the product's design to make it manufacturable
- Created **standards** and automated manufacturing documentation writing in order to reduce mistakes, bring consistency and gain time.
- Contributed to the configuration's improvement with the client in order to improve documentation's quality and **gain time** throughout the process. I involved the engineering team and created a shared file they filled to inform about the quality of the documentation. Then I participated in the meeting with the clients to show the results and find solutions.
- Led 6 audits with the clients
- Led a process **FMEA**

Thales Australia Limited is a primary defense contractor for the Australian Defense Force.

Systems Engineer within the FFG (guided missile frigate) upgrade team

Key responsibilities:

- . Management and validation of Combat and Platform Systems Requirements: 27 systems, 140 general requirements for each.
- . As the project manager's assistant (1 month): created and updated **42 metrics** to enable the team to gain insight into the efficiency of the project and identify areas for project process improvement. Type of metrics:
 - Schedule - delivery date and slippage in days from original delivery date
 - Progress - number of systems installed, of systems tested and validated, number of requirements approved by the client...
 - Scope – number of Engineering Change Requests/Orders
 - Quality - quality defects and documentation
- . Project management: write, review and check the consistency of the 3.780 evidences that show the requirements have been met. **I managed a 3 people team:**
 - Assign tasks to the team members, depending on their qualifications and availability.
 - Developed a time line for project
 - Lead daily meetings: Follow up with others on the status of their contributions, work on specific requirements
 - Follow the project progress with metrics: number of evidences written by system and by team member, number of evidences to write before delivery date, number of "hard-to-sell" evidences by system.
 - Give an account on the project to my managers.
- . Conduct **ships systems tests** to see if they meet the specific requirements of Contract Specifications.

Key Achievements:

- . I have completed the project within schedule: 3780 requirements validated and reviewed, audit prepared according to the client's demands.
- . I have automated metrics generation: **reduced time by 50%**
- . I have created a **webpage** to enable the team members to see the metrics and other significant charts. That webpage automatically updates itself.
- . I showed that I could **adapt myself to a new environment** easily

Bretagne Ateliers – France – supplier for PSA Peugeot Citroën

Blue-collar internship in the **automotive industry** in order to experiment work as an operator and understand their needs and matters.

Education/Qualifications

Institution: ECAM group - France

The engineering program consists of 5 years of study starting with 2-year preparatory cycle. During the 3rd and 4th years I developed a sound foundation in mathematics, physics and computer science and a specific knowledge foundation in the 5 technical fields:

- Automated Production Science
- Mechanical
- Material Science
- Computer Science
- Electronics and Telecommunication Science

In the final year, I **specialized in Industrial engineering**: lean manufacturing, supply chain management, ergonomics, industrial management, Total Productive Maintenance, sensors and actuators, quality control etc.

Continuous improvement:

- PDCA
- 5S
- SMED
- TPM
- VSM
- Process FMEA
- KANBAN

Production management:

- Overall Equipment Effectiveness
- Performance analysis
- Manufacturing Time calculation
- Facility Layout
- APS-ERP-MES

I was trained to the **IPC-A-610** (*Acceptability of Electronic Assemblies*)

University Projects

2009: Final Project with an American researcher (3 months) Laboratory Biomis

Study and conception of parallel cell biochips for gene transfection.

Reactive ion etching (RIE) is an etching technology used in microfabrication. It uses chemically reactive plasma to remove material deposited on wafers.

My project: Find all the parameters influencing the etching (Gaz pressure, type of gaz, type of resin, power etc.) and define the adjustments, to improve the speed, etching rate, anisotropy etc.

- Prepare **semiconductor wafers**: deposit aluminum on silicon wafers, deposit negative resin, lithography and aluminum etching.
- Design of experiments (**Tahushi Methods**)
- Etch sample wafer plates
- Qualify the samples with a profilometer and a **Scanning Electron Microscope**
- Write the processes according to the results and their analysis

2009: "Confatech": held a conference about lean manufacturing applied to small series production. Main tools studied: TPM, 5S, VSM, SMED.

2007: Industrial project: find a new opening system of the side doors on armored trucks. 6months: analyse the client's needs, manage resources, offer solutions and provide results.

I found a linear drive system matching the requirements (security, quality, performance, power source etc...)

Non Technical Skills/ Interests/Others:

- In charge of drawing the marketing plan and of finding sponsors for the university's biggest event (equivalent of "Proms"). (Budget: **17 K€**, 6 people team)
 - Project Management
 - Business sense
 - Creativity
 - Credibility
 - Negotiation

- Fashion: I help a French fashion designer with **marketing, finance, communication and subcontracting.**

- **Tutor** of 3 students in Mathematics and physics / chemistry.

Referee

David Pringle, Verification and Validation Manager, Thales Australia, Garden Island

Tel: +61 2 9562 3730

Mob: +61 408 322 727

david.pringle@thalesgroup.com.au

Letter of references:

<http://www.fichier-pdf.fr/2009/05/31/550h62t/Letter%20of%20references.pdf>

Myriam HOUZE, Thales Microelectronics, Châteaubourg, FRANCE

Tel: 02 99 00 94 00

myriam.houze@fr.thalesgroup.com