

RESUME - MICHAEL SMITH

FULL NAME: Michael Rohan Smith
MARITAL STATUS: Married
DATE OF BIRTH: 8th of October, 1965
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CURRENT POSITION

Team Leader, CASE and Tools
Thales Air Systems Division
Melbourne, Victoria
Australia

EDUCATION

Bachelor of Applied Science
Majors: Computer Science and Instrumental Science
Swinburne Institute of Technology
Hawthorn, Victoria
Graduated 1988

INTERESTS

Cycling
Sea Kayaking
Cross country skiing
Bush walking
Electronics
Open source software development and advocacy
Internet server administration in Linux and NetBSD.
Technology in general

EMPLOYMENT HISTORY

HAWKER DE-HAVILLAND VICTORIA PTY LTD
(formerly Commonwealth Aircraft Corporation)
1996-1997

I was employed as a technical assistant while studying for my Applied Science Degree

Working on the FA18 Maintenance Diagnostic and Service Life Monitoring System (MD&SLMS)
Software development (in Pascal)
Validation (on VAX/VMS)

VIC ROADS. July 1988 to December 1998

I was employed as a Computer Systems Officer in the Traffic and Road Use Management department of Vic Roads. The principal functions of this area were design and development of software in the Traffic control center environment and Integration on traffic signal systems..

C software development (OpenVMS on VAX and Alpha)
X windows/Motif graphical user interfaces
Development and maintenance of code which interfaces to DECMessageQ middle ware
Communications software (Serial communications, DECnet and TCP/IP)
Designed algorithms for travel time calculation.
User interface design (X, Java, Win32)
Hardware maintenance (VAX, Alpha, PDP-11)
Control center operations support (VicRoads Traffic Communication and control center)
After hours software and hardware maintenance (SCATS, TCCC operations)

In my time at Vic Roads I developed the Incident Detection systems on OpenVMS. I worked on the interface to embedded systems, the server software and the user interfaces. I developed camera control systems (both server, and client). Worked on the first version of DFIS (the Drive Time system), developing the external interfaces, servers, archiving and plotting functions, and user interfaces.

THALES ATM. December 1988 to the present day

In my eight years at Thales I have been employed as a Senior Software Engineer in the Human Machine Interface (HMI) team, working on the Eurocat Air Traffic Control application.

The Eurocat HMI is an X Windows/Motif application which runs on UNIX systems. It uses UBSS middleware for interfacing and Image graphical middleware as its graphical front end. My role as a Senior Software Engineer requires me to develop software in C, with some attention to interfaces written in ADA.

As a part of my software engineering work I have worked on software engineering changes, as well as problem correction. I ported the HMI and Image applications from DEC Unix to Linux, and worked on interfaces to new graphics cards.

All software development during my time at Thales has been done under various levels of CMM, including two years under CMM level 4 for the last two years. During this time I have participated in CMM processes, including;

- Design of Engineering Changes
- Software Design Reviews
- Code Reviews
- Unit Test Reviews

As a senior engineer in the HMI team I have had extensive involvement in user interface design issues, with attention to Human Factors issues and technical constraints.

My duties have also included conducting technical training sessions for new Software Engineers and customer staff. I have acted as HMI team leader on several occasions when required. This required me to;

- Calculate estimates for proposed Engineering changes
- Manage the resources of a team of 15 people

My role as a Senior Engineer in the HMI team requires me to mentor and coach less experienced members of the team. This includes assisting them with their working environment and advising them on strategies for solving problems.

In the past year much of my time has been spent on this type of work; training, helping less experienced staff, advising on strategy, and solving difficult problems.

I moved on from the HMI team to work on a research project to develop automated test tools. This

project lasted 18 months and resulted in the development of a J2EE application which acts as a front end for existing simulation interfaces.

I spent six months working as a systems engineer on a new user interface development project. This position involved designing and specifying a new user interface for the Eurocat ATC system, as a part of a team of systems engineers.

I spent some time training customer staff in Software Engineering practices, with a focus on the Eurocat HMI. I then moved into the position of Team leader for the CASE and Tools team. In this position I manage three other engineers who maintain various tools and systems.

My responsibilities include managing the configuration management systems, software engineering tools, interfacing with subcontractors, interfacing with on site operations, maintaining off site software development environments, managing the evolution of configuration management and executive information systems, among others.

My key skills are in the following areas:

- Team leadership
- Configuration management
- Administration of CASE tools.
- Unix and Linux systems administration
- C programming