

	<b>Timothy M. Nibert</b>	
	<b>Skilled and passionate software developer seeking new challenges and growth</b>	
	+61 468 633 630 tmnibert@gmail.com	github.com/tnibert ironlotuscomputer.com.au

### KEY STRENGTHS

- Excellent communicator
- Proactive
- Seasoned Linux Engineer

### TECHNICAL SKILLS

#### **Programming**

- Python, C/C++, C#, Java, R, Javascript, SQL
- Test driven development with CppUnit, Pytest, and PyUnit
- Distributed Systems and Web - Django, Flask, Web2py, Requests, Sockets
- UI - HTML, CSS, AngularJS, JQuery, Swing
- Data Science - Pandas, Matplotlib, Jupyter
- Multimedia - SDL, Allegro, Godot, Unity3D, FFMPEG, OpenCV
- Dev Ops - Gitlab-ci, Travis-ci, Nuitka, Jenkins, Gerrit, JIRA

#### **Linux and Infrastructure**

- Virtualization and Containers - VMware ESXi, Xen, Docker
- Server - NGINX, Apache, UWSGI, Bahamut IRCd, Samba
- Database - PostgreSQL, MySQL, SQLite, SQLAlchemy
- Monitoring - Monitorix, Collectd, Graphite, Munin
- Kernel Programming

#### **Miscellaneous**

- ISO-13485/IEC-62304 Medical Device Process and Software
- QA Test Planning and Execution
- Advanced TCP/IP Networking
- Security Assessment and Malware Analysis
- ITIL Processes

## PROFESSIONAL HISTORY

**Genea Biomedx**  
Software Engineer

Apr 2018 - Current  
Melbourne, VIC

**Background:**

Genea Biomedx develops biomedical devices for in vitro fertilization (IVF) laboratories. Products include embryo incubators, automated vitrification systems, and EMR integration.

**Key Accomplishments:**

- Maintained IVF incubator and embryo assessment software
- Conceived and developed a compatibility layer to facilitate high volume clinical data management
- Debugged heavily multi threaded distributed clients interacting with databases and APIs in a Model View Controller architecture
- Provided technical advisory to key decision makers
- Automated QA document generation

**Planet Innovation**  
Software Engineer Tier 3 Support

Oct 2016 - Apr 2018  
Melbourne, VIC

**Background:**

Planet Innovation is an engineering house developing biomedical devices. The project I was involved with is a time lapse imaging in vitro fertilization incubator and supporting server application called Geri and Geri Connect.

**Key Accomplishments:**

- Developed a hardware monitoring service for embedded Windows medical devices
- Reproduced and resolved numerous field reported software bugs
- Performed code reviews throughout Agile development cycle
- Worked with others to establish a world wide technical support infrastructure
- Authored comprehensive technical documentation
- Implemented JIRA service desk workflow

**Iron Lotus Studios**  
Software Engineer

Feb 2016 - Current  
Melbourne, VIC

**Background:**

Iron Lotus Studios is a self established software development company specializing in games and web products.

**Key Accomplishments:**

- Created reusable intellectual property
- Developed and maintained an online photo sharing platform
- Built a 3D tank battle game with online multiplayer
- Built a 2D arcade style space shooter game
- Deployed and maintained Debian Linux VPS infrastructure utilizing Apache, NGINX, WSGI, and PostgreSQL

**Abacus**  
Technician

May 2016 - Oct 2016  
Melbourne, VIC

Background:

Abacus Rent IT is a division of Abacus Calculators for computer and technology equipment hire.

Key Accomplishments:

- Managed logistics and warehousing of IT and AV equipment
- Implemented IT infrastructure for conferences and large events
- Repaired computers and commercial grade copier printers

**Alchemy Events**  
Audio/Visual Technician

Oct 2015 - Feb 2016  
San Francisco, CA, USA

Background:

Alchemy Events provides sound and lighting to large social and corporate events. We created beautiful ambiance and threw amazing techno parties.

Key Accomplishments:

- Provided live audio streaming services
- Set up and struck music events
- Developed working knowledge of acoustics, audio technology, and lighting

**Tri Valley Computer Guru**  
Head Technician

Oct 2008 - Feb 2016  
Livermore, CA, USA

Background:

Tri Valley Computer Guru was a company that I owned and operated addressing IT needs for home and business clients in the San Francisco bay area.

Key Accomplishments:

- Built, promoted, and operated an IT service business from the ground up
- Functioned as IT department for several small businesses on an ongoing basis
- Developed an IRC chat bot to translate languages in real time
- Installed a Hadoop cluster
- Provided on call service to ISP server facilities

**Bay Area Metal Scene**  
Software Engineer

Mar 2008 - Sep 2008  
Pleasanton, CA, USA

Background:

Bay Area Metal Scene was a heavy metal music label sharing local San Francisco east bay area bands with the wider world.

Key Accomplishments:

- Developed company website using HTML, CSS, PHP, and MySQL
- Deployed in house OpenBSD/Apache server infrastructure

## PROJECTS

### **Geri/Geri Connect & Assess**

<https://www.geneabiomedx.com/Products/Geri>

Geri and Geri Connect are a distributed system designed to optimize in vitro fertilization patient outcomes. Geri is an embedded IVF incubator that creates time lapse video of embryo development. Geri Connect synchronizes this data through a heterogeneous distributed database and allows for manual or automated embryo viability assessment. It integrates seamlessly with a variety of outside medical systems. Technologies used include Embedded Windows, Python, Debian Linux, VMware ESXi, Web2py, Flask, Celery, Uwsgi, AngularJS, NGINX, PostgreSQL, SQLite, Docker, and FFMPEG (MP4).

### **PicPicPanda**

<https://www.picpicpanda.com>

PicPicPanda is a photo sharing platform developed with Django featuring a website, REST API, console client, and unit test suite. It was created to allow photo storage and sharing with the feel of real world photo albums. It allows fine grained access permissions to albums to facilitate sharing with family and friends. Private photos cannot be viewed without authentication.

### **Panzer Deathmatch 3D**

<https://www.ironlotuscomputer.com.au/panzerdeathmatch3d>

Panzer Deathmatch 3D is an networked multiplayer tank battle game written in C# using the Godot engine.

### **Kill The Aliens**

<https://www.ironlotuscomputer.com.au/kill-the-aliens>

Kill The Aliens is an arcade style vertical scrolling space shooter game featuring a custom built game engine.

### **Abunai Bot**

<https://www.ironlotuscomputer.com.au/abunai>

Abunai Bot is a multithreaded Internet Relay Chat (IRC) bot written in Python. Its purpose is to translate languages on the fly for conversations between foreign language speakers.

## VOLUNTEER EXPERIENCE

### **BinrevNet**

Server Administrator

Installed, configured, and maintained a Slackware Linux server with BahamutIRC daemon as part of the Binary Revolution IRC network.

### **Pycon AU**

AV volunteer

Recorded video of talks at Australia's annual Python conference.

## EDUCATION

- CompTIA Network+ Certified
- Studied Computer Science at University of the People, online
- Studied Computer Engineering at San Francisco State University, San Francisco, California
- Studied GE, Biology at Chabot College, Hayward, California - transferred
- SoftwareCPR IEC 62304 Medical Device Software Development Trained
- Third Degree Black Belt, Danzan Ryu Jujitsu
- Languages: English, Japanese, Spanish

References available upon request.