

Josef Magri



21st January 1991



magri.josef@gmail.com



+356 77206917



josefmagri.online

Education

MSc ICT (Melit.) Microelectronics and Microsystems | 2018

BSc (Hons)(Melit.) Computer Engineering | 2015

Skills

Languages: C, C++, Lua, MySQL, SQL, TCL/TK, Bash and Python

Deployment Tools: Docker, Nginx, Apache, CMake, NodeJS and Git

WebDev: HTML, CSS, JS, JQuery, Wordpress and php

Other: ESXI, Zabbix, Qt, GlusterFS, JunOS and Linux

Extra-Curricular

AV Specialist as a Freelancer

- Live Audio Setup/Mixing
- Programming/Setup of Light Shows
- Design/Build of custom made systems for large AV events
- Design/Build of custom made linux based systems for the automation/synchronization of light/video/mechanical shows

Home Automation Enthusiasts

- Consultancy for the design of complex home automations
- Design/Implementation of DIY home data acquisition systems
- Micro-processor programming for monitoring data by multiple types of sensors and automation of actuators from feedback of data gathered

Drone Geek

- Drone electronic design and programming
- Design/Build/Flying of multiple racing drones
- Passion for drone photography/videography

Work Experience

Since May'18 IT Specialist Engineer

Comsec Ltd

- Design/Implementation of high-availability storage structure
- Deployment/scripting of IVR (Interactive Voice Response) systems for call centers
- Deployment/management of ESXI based systems
- Programming of .Net based applications for integration of SOAP messaging services
- Design/Implementation of VPN systems for site-to-site and client-to-site architectures
- Deployment/Maintenance of Linux based systems

Oct'13-Jun'16 Student Engineer

Methode Electronics Malta Ltd

- Total Productive Maintenance
- Implementing an OPC Server defining a common interface that is written once and then reused for multiple purposes, SCADA, HMI, or custom software packages
- Designing of embedded systems for dedicated tasks mostly related to Data Acquisition

Nov'09-Jun'12 Technical Executive

Light Projects Ltd

- Programming and Servicing multiple types of home automation, including Dali and ETS/KNX Systems
- Discussing specific customer requirements in connection with designing and building of lighting automation used in domestic and business premises
- Web based interfaces and touch screen graphical interfaces

Jun'09-Nov'09 Computer Engineering Technician

Water Services Corporation

- Programming techniques
- Managing of SCADA (supervisory control and data acquisition) system, a large-scale system operating with coded signals over communication channels so as to provide control of remote equipment typically water and drainage pumps in this sector

Research and Projects

Dec'17

IEEE Publication

HLTB Design for High-Speed Multi-FPGA Pipelines

DOI: 10.1109/ICECS.2017.8292109

- This work presents the design and implementation of a high-level test bench for high-speed multi-FPGA pipelines, to model and simulate architectures that gather and process large amounts of data.
- The test bench was successfully employed in a nuclear particle detector system, forming part of a large physics experiment.
- The work shows that factoring high-level test benches in the design pipeline becomes not just an asset but an invaluable tool for the optimization, testing and verification of complex high-speed designs.