



JACQUES VAN DEN MUNCKHOF

EMBEDDED SOFTWARE ENGINEER

PERSONAL PROFILE

I am a passionate electronics & firmware developer, with an insatiable curiosity and desire to learn and gain experience in every kind of technology.

From the moment I made my first LED light up, I was hooked. From trackers and IOT devices to complex controllers, gadgets and gizmos are what I do.

PROFILE

FULL NAME: Jacques van den Munckhof

DATE OF BIRTH: 08 March 1990

GENDER: Male

MARITAL STATUS: Married

NATIONALITY: Dual- Dutch / South African,

New Zealand Resident

LANGUAGES: English (Fluent),

Afrikaans (Competent), Dutch (A1)

MOBILE NR: (+64) 022 547 7113

EMAIL: jacques@munx.co.za

WEBSITE: www.munx.co.za

HEALTH: Excellent

EMPLOYMENT HISTORY

Embedded Software Engineer

Gallagher (Jan 2022 - Present)

As part of the Energizer Development team, I am responsible for developing the firmware for the third generation of solar energizers, one of Gallagher's core product ranges, implementing battery management power saving strategies. I am also a key developer for the firmware of the revised eShepherd smart neckband, one of Gallagher's new and exciting product acquisitions. I leveraged my experience with energizers to implement the pulse and audio stimuli, and wrote the battery management for the neckband.

Firmware Development Engineer

Evalan (May 2018 - November 2021)

Working in a fast-paced tech start up with dynamic and multidisciplinary teams of engineers and project managers, I developed firmware for a variety of telemetry products. These included a number of activity tracking wearables and smart-building solutions using BLE and Cellular communication.

Development Engineer

Avance Technologies (Jun 2015 - Apr 2018)

Under a team of experienced electronics development engineers, I gained a wealth of experience designing a variety of circuits and firmware. I designed a large number of PC boards using Altium software, and wrote firmware primarily in C. I developed products for asset monitoring, logging and tracking applications.

Earlier Experience

Suntoy (Feb 2015 - May 2018)

Solar Thermal Energy Research Group (Jul 2014 - Dec 2019)

Triz Engineering Solutions (Feb 2014 - Jun 2014)

EDUCATIONAL HISTORY

Stellenbosch University

Bachelor of Engineering (B.Eng), Mechatronic Engineering (2009 - 2014)

Parktown Boys' High School

2004 - 2008

CORE SKILLS

Firmware Development:

- Embedded development in "C"
- Bare-metal programming and RTOS
- IoT and Telemetry applications

EXTRA SKILLS

- Electronic Circuit design
- PCB Layout (Altium)
- Azure Cloud Functions (C#)
- Test Application Development
- Git version control