WILLEM OLDING
PhD, BEng (hons)

PERSONAL INFORMATION

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WORK EXPERIENCE

2020-ongoing **Solutions Engineer and Rust Developer**

ChainSafe Systems

ChainSafe is a leading blockchain R&D company based in Toronto, Canada. As a Solutions Engineer I design cryptography and blockchain based solutions for clients. I also work as a Rust developer, primarily on the implementation of the Mina protocol.

2020 **Freelance Rust/JS Developer and Researcher**

RAIR Inc.

RAIR is a distributed media streaming and digital ownership protocol. I was contracted to design the fundamentals of the protocol itself and to develop a proof of concept implementation.

Orion Protocol

Orion is a distributed exchange and liquidity aggregator. I was contracted to do an experimental port of their Ethereum smart contracts to Rust/WASM, targeting the Elrond blockchain.

2020 **Lead Software Developer, REDGRID**

RedGrid

RedGrid is an energy IoT company that aims to reduce household energy consumption by adding sensors and controllers to household appliances. As the lead developer, in addition to writing code I was responsible for task assignment, deployment and managing the CI/CD pipelines.

2018–2020 **Rust Developer, HOLO.HOST**

Holo.Host

Holo.Host is a distributed web startup that maintains the open source Holochain protocol. This is a distributed alternative to a server/database in a traditional web application. I began with Holo through their internship program and was hired to work on on the core protocol team as a Rust developer.

2015-2020 **Lecturer, UNIVERSITY OF TASMANIA/SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY**

University of Tasmania

I authored and co-taught 3rd year level courses in cryptography and communication systems. Additionally as part of a lecture exchange program I taught digital communication systems to students in China.

EDUCATION

	2014-2019 University of Tasmania
Doctor of Philosophy	School: Engineering and ICT Thesis: *Probabilistic Methods for Land Cover Change Detection* Description: This thesis explored methods for detecting changes and disturbances in parcels of land from time series of low resolution satellite imagery. Advisors: Prof. J.C Olivier & Dr. Brian Salmon
	2010-2013 University of Tasmania
Bachelor of Engineering (Hons) - Computer Systems	First class · School: Engineering and ICT Thesis: *Applying Bayesian Networks to Error Correction Codes* Description: This engineering specialization was a combination of engineering and computing units. Honors research investigated methods to implement error correction codes for digital communication.

TECHNOLOGIES

Languages	Rust, Solidity, Javascript, Python, C
Frameworks	Node, Express, React, GraphQL, PyData stack
Other	Git/GitHub, Docker, Linux, Latex

AWARDS

2022 · Winner (top 10) of EthGlobal Hackathon in Bogota

2014 · Dr Sergio Giudici Hydro Tasmania Elite Research Scholarship

2014 · Sir Allan Knight Medal for best fourth year engineering honors project

2013 · Robert and Roy Horsdall Bursary for best third year Engineering student

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