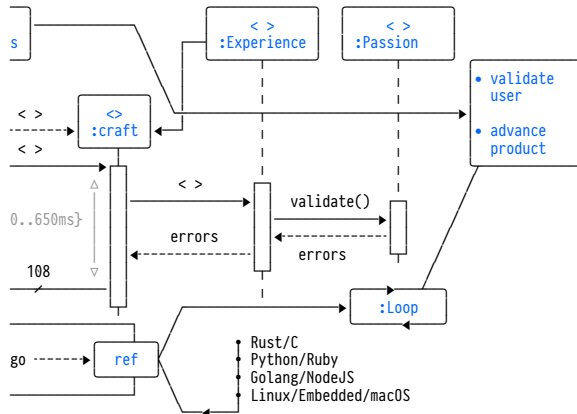




Vincent van Haaff := **Engineer** HW/SW

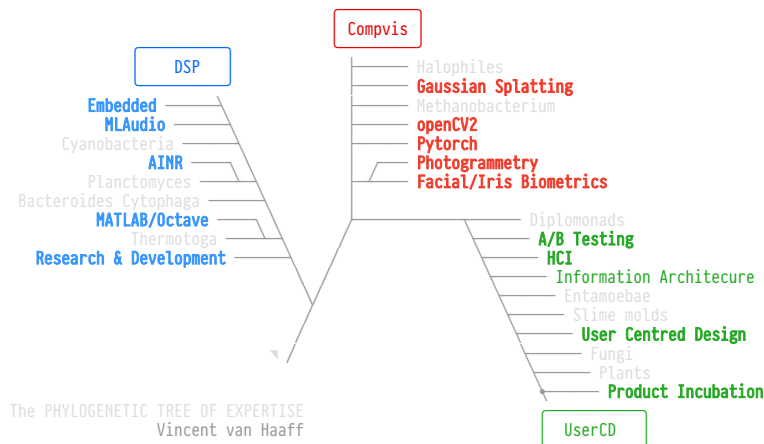
vvh.io | vincent@vanhaaff.com | [778.819.8695](tel:778.819.8695) | [in/vincentvanh/](https://in.vincentvanh/)

Summary



Staff-level engineer and co-founder with over 18 years of experience in tech. Expertise spans software (cloud, local, edge) and embedded hardware systems, with a focus on DSP, CV, & UserCD. Proficient in but not exclusive to C, C++, Rust, Ruby, Golang, Node, Swift, PyTorch, and Python/TensorFlow. Skilled in API development, algorithm design, database management, and distributed computing. Expertise in DSP, embeddedML, computer/machine vision, data/security analysis, and education. Fights for the user.

Expertise



Education

- o - UC Santa Barbara := BSc Physics
- o - Vancouver Film School ≡ Diploma HCI/User Centred Design
- o - MITx := Micro Masters Data Science



Vincent van Haaff **Engineer**_{HW/SW}

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Experience

Vancouver Film School

****Instructor | May 2024 - Present****

- ⇒ Taught Advanced Javascript/Computational Aesthetics for Vancouver Film School's Digital Design Program.

Synervoz Communications Inc.

****Senior Embedded Software Engineer | Jun 2023 - Apr 2024****

- ⇒ Crafted embedded firmware and infrastructure for an AI-driven audio DSP project on the Xtensa platform, next-gen Bluetooth earbuds.
- ⇒ Enhanced audio DSP pipeline reliability with low-level drivers and middleware in C.
- ⇒ Optimized on-device model inferencing to bring extremely low power and low latency ai-driven AINR & DSP to market.

Fluency Labs Inc.

****Technical Lead | Jan 2018 - Oct 2020****

- ⇒ Launched and scaled Kafka/Zookeeper/Akka/Atom Kubernetes clusters for IoT data ingestion. Developed C++ libraries for distributed ingestion.
- ⇒ Successfully deployed IoT data ingestion solution for Smart City pilot program for Park City, Utah. All while mentoring junior developers!

Vancouver Airport Authority

****Biometrics R&D Lead | Mar 2016 - Jul 2017****

- ⇒ Incubated an R&D lab from the ground up to modernize automated border control kiosks globally. Led the team and leveraged modern biometrics techniques to fulfill requirements from border services & other government agencies.
- ⇒ Steered through design problems and resolved issues in a timely manner.

crossfader.fm

****Co-founder | Sept 2013 - Sept 2015****

- ⇒ Created a popular music production and community platform for iOS. Built a robust track recommendation engine written in ****Ruby** and served on ****Rails**** and supported the engineering team by contributing real-time DSP editing features when needed.
- ⇒ Grew the team from three to 50 employees and managed back-office operations and HR in the first year.



Vincent van Haaff := **Engineer** HW/SW

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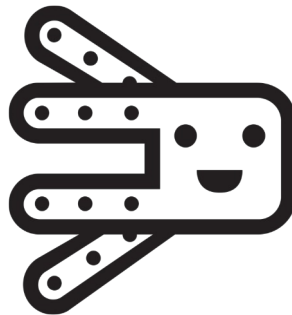
Microsoft/BigPark

****Senior Software Developer II | Aug 2008 – May 2011****

- ⇒ Worked with incubation team on the Xbox Kinect and Xbox 360 platforms.
- ⇒ Integrated social features and created sound effects for online gaming.
- ⇒ Shipped 8 million devices in 60 days.

Acknowledgements & Affiliations

- - Co-founder of Vancouver Mini-Makerfaire
- - Co-founder of Vancouver Hackspace
- - Co-founder of Aurora Digitalis
- - Stanford CCRMA Fellow



Thanks!