

# CALVIN OWENS

P.O. Box 3465, Redwood City, CA 94064

+12143647857 • calvin@wbinvd.org

www.github.com/jcalvinowens

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## wbinvd.org

Self-owned contracting business

2024 - Now

## Nuvia / Qualcomm

Staff Software Engineer, Linux Kernel, OS Team

2022 - 2023

## Cambridge Mobile Telematics

Principal Software Engineer, IoT Group

2021 - 2022

## Facebook

Production Engineer, Linux Kernel

2014 - 2020

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## Education

Southern Methodist University, Dallas, TX

- Computer Science

- Clarinet Performance

2010 - 2014

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## Selected Projects

## Personal

### Linux kernel contributions

2010 - Open hardware projects

2023 -

- Dozens of upstream bugfixes across every subsystem
- Extensive experience debugging/patching kernel bugs
- Upstream patches: <https://wbinvd.org/linux/>

- <https://github.com/jcalvinowens/tempsensor>
- <https://github.com/jcalvinowens/ledboard>
- <https://github.com/jcalvinowens/wallclock>

### netconsd

2015 - 2017

### ircam-viewer

2023 -

- <https://github.com/facebook/netconsd>
- Backend for processing kernel logs at Facebook
- Processes 1B+ logs per day from 1M+ machines
- Replaced 100+ backend servers with fewer than 10
- Talk: "Monitoring the Linux Kernel at Facebook", LinuxCon 2016

- <https://github.com/jcalvinowens/ircam-viewer>
- <https://github.com/jcalvinowens/meta-ircam-viewer>
- Minimalist GUI for viewing USB infrared cameras

### asmhttpd

2010 -

- <https://github.com/jcalvinowens/asmhttpd>
- HTTP webserver written in x86-64 assembly
- Uses only 4KB of RAM

### Interviewing at Facebook

2016 - 2020

- Conducted 400+ technical interviews
- Trained 20+ new interviewers
- Taught a recurring class on architecture interviews

### Ham Radio

2018 -

- Amateur Extra licensee: W5CAL
- 500+ contacts in 40+ countries on HF
- Focus on antenna design and digital modes