

TOM JACOBS

Email: hatsmagee@gmail.com

Github: <https://github.com/tjacobs/Tom>

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Software developer, robotics, mobile apps.

SKILLS

Languages: C, C++, Bash, Android Java, JavaScript, HTML, CSS, Python.

Tech: Linux, networking, embedded, hardware, motor control, video streaming, electronics.

EXPERIENCE

Ghost Robotics – Senior Software Engineer | ghostrobotics.io | Philadelphia | 2018 -

- Developed and maintained the robot controller Android app.
- Developed robot health diagnostics, for the app and Linux.
- Designed and built the Ghost T-mote joystick controller.
- Wrote C++ code for comms and telemetry on robot.
- Built robots, assembling hardware and electronics.
- Upgraded robot hardware at customer sites.
- Maintained SDK developer docs and tools.
- Wrote the initial robot user guides.
- Wrote self check robot firmware.
- Handled the customer support.
- Trained customers on robots.
- Profiled motor performance.

Kepler Analytics – CTO | kepleranalytics.com | Melbourne | 2015 – 2016

- Developed the Kepler product, which detected phones and shopper behavior in retail stores.
- Deployed servers, data processing system, heat map localization, sensor upgrade system.
- Grew the company from prototype technology to deployment in large electronics retailers.

Expensify - Senior Software Engineer | expensify.com | San Francisco | 2010 – 2014

- Created Expensify mobile apps across four platforms, writing a cross-platform app framework.
- Ran the mobile development team, writing the iOS app, managing the Android app.
- Got the Android app featured in the Play Store, boosting app downloads by 100K+.

Red Swoosh - Software Engineer | on.wsj.com/3ksSpeg | San Francisco | 2006 – 2008

- Co-wrote the Red Swoosh product software, a peer-to-peer file distribution client written in C++.
- Wrote Red Swoosh's BitTorrent implementation, created the first in-browser BitTorrent client.
- Upgraded the deployed peer-to-peer app client install base of 10m+ across the world.

PROJECTS

Teleport – Remote Telepresence Robot | tindie.com/stores/teleport | Philadelphia | 2020

- Designed PCB on Pi Zero adding audio amp, mic, motor drivers, and power management.
- Developed software for audio and video streaming, and designed 3D printed housing.
- Sold devices to customers.

EDUCATION

Udacity – Self Driving Car Nanodegree 2017

Coursera/Stanford University Online – Machine Learning 2017

University of Melbourne – Bachelor of Computer Science 2002 - 2005