Email: hatsmagee@gmail.com
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LinkedIn: https://linkedin.com/in/TomPJacobs

TOM JACOBS

Software developer, specializing in robotics and apps.

E3 Visa, USA

TECHNICAL SKILLS

Languages: C, C++, Bash, Android Java, Obj-C, Python, JavaScript, HTML, CSS.
Tools: CMake, ROS, Raspberry Pi, Linux.

EXPERIENCE

Ghost Robotics – *Senior Software Engineer* **https://ghostrobotics.io** | *Philadelphia* | *2018 -*

- Built robots.
- Developed the robot controller Android app.
- Designed and built the joystick remote control.
- Maintained the SDK developer docs and tools.
- Maintained network comms protocols for robots.
- Developed robot health diagnostics software, app and Linux.
- Upgraded hardware and software of robots at customer sites.
- Handled the customer support.
- Trained customers on robots.
- Wrote the robot user guides.
- Profiled motor performance.
- Wrote robot firmware.

Kepler Analytics – *Cofounder/CTO* **https://kepleranalytics.com.au** | *Melbourne* | *2015 – 2016*

- Developed the Kepler product, detecting smartphones and shoppers and their behavior in retailers.
- Deployed servers, data processing system, heat map localization, and remote sensor upgrade system.
- Grew the company from prototype technology to deployment in large electronics retailers.

Expensify - *Senior Software Engineer* **https://expensify.com** | *San Francisco* | *2010 – 2014*

- Created Expensify mobile apps across four platforms (iOS, Android), writing cross-platform mobile app framework.
- Ran the mobile development team, writing the iOS app, and grew with the company from four people to thirty.
- Worked on the Android app to get it featured in the Play Store, boosting app downloads by 100,000+.

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

- Co-wrote the Red Swoosh product, a peer-to-peer file distribution client written in C++.
- Wrote Red Swoosh's BitTorrent implementation and created the world's first in-browser BitTorrent client.
- Upgraded the deployed peer-to-peer app client install base of 100,00,000+.

PROJECTS

Teleport – *Remote Telepresence Robot* **https://teleportconnect.com** | *Philadelphia* | *2020 -*

- Designed PCB around Raspberry Pi Zero adding audio amp, mic, motor drivers, and power management.
- Developed software for audio and video streaming.
- 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 (Honours)* *2002 - 2005*