William Persampieri

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WORK EXPERIENCE

Baraja – Palo Alto, CA – *Field Application Engineer Team Lead* **Jan 2021 – Present**

Subject Matter Expert for global customers and liaison for Engineering, Product, and Business Development teams

- Developed field evaluation test plans and software to track Key Performance Indicators and validate specifications
- Analyzed product performance and debugged system issues in-field, performed root-cause analysis and resolution
- Automated common LiDAR sensor tests and developed standard RMA and Engineering Change Request reports
- Worked with Customers to define key requirements and pain points to inform future Product Development
- Built FAE team from 1 to 5 Engineers and manage the international team across Sydney, Detroit, and SF

Baraja – Palo Alto, CA – *Field Application Engineer* **Sept 2020 – Dec 2020**

- Performed LiDAR system testing, verification & validation analysis, and quantitative LiDAR pointcloud review

Aeva – Mountain View, CA – *Hardware Design Engineer* **Feb 2020 – Apr 2020**

- Iterated frequency-modulated continuous-wave laser driver circuitry for automotive LiDAR; COVID-19 layoff

Ouster – San Francisco, CA – *Hardware Engineer* **Apr 2019 – Oct 2019**

- Designed, tested, & optimized laser module electronics for high-resolution long-range VCSEL-based flash LiDAR
- Gathered customer requirements and performed application testing for data-driven product design improvements

Analog Devices – Wilmington, MA – *Applications and Product Engineer, Automotive LiDAR* **Aug 2017 – Feb 2019**

- Worked with customer to ensure alignment on circuitry, features, specifications, testing, and timelines
- Facilitated key opto-electric product and test automation improvements – resulting in faster sample release times

MC10 – Lexington, MA – *Senior Electromechanical Intern* **Feb 2015 – Dec 2015**

- Designed mechanicals for wearable sensors; created manufacturing workflows & tooling; and validated via testing

PROJECT EXPERIENCE

Analog Devices – Bioimpedance Hydration Research, Dartmouth College – *EE Technical Lead* **Sept 2016 – Mar 2017**

- Performed analog circuit design for bioimpedance spectroscopy research to monitor body hydration

BU FIRST Robotics Team – BU Academy – *Electrical Lead; Team Captain (2010-2012)* **Sept 2008 - June 2012**

- Led mechanical, electrical, and programming aspects of robot design and build; creator/webmaster bu.edu/bufirst

EDUCATION

Dartmouth College – Hanover, NH – Bachelor of Arts in Engineering Sciences **2017**

- Coursework includes: Analog Circuits I & II, Embedded Systems & Firmware, Solid Mechanics, Thermodynamics, Systems Analysis, Computer Science. Extracurriculars include: walk-on coxswain, society House Manager

SKILLS

- Apps: Atlassian JIRA & Confluence, SolidWorks, JMP, MS Project, MS Visio, Adobe Creative Suite
- Languages: Python, SQL, LabVIEW, C, Assembly, MATLAB, HTML, Git, REST APIs. Linux command line experience
- Use EE meters, oscilloscopes, and hand tools, including microscope soldering. Six-Sigma Yellow Belt

PERSONAL PROJECTS

Drone Videography – Personal drone collection includes DJI and FPV drones for landscape videography and flying fun

- 200+ flights over 30+ hours. See videos at willper.me/creative. Self-built FPV drone; self-repaired all crashes

WillCloud – Media and private cloud server network with 3 server nodes totaling 190 TB of storage

- Built custom servers running Unraid Linux, Docker, and Virtual Machines for web server and 20+ microservices

PiPyOBD-MINI – Real-time automobile diagnostics using Raspberry Pi, Python, and ELM327 chip on OBD-II interface

- Created a display to provide feedback on engine and vehicle performance; used for troubleshooting