Bo-Christopher Redfearn

Founder & CTO, Chargebotic

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CHARGEBOTIC INC

Co-founder & CTO May 2026 – Present

- Co-founded Chargebotic (Delaware corporation, May 2026) to build Kestrel, a drone that perches on powerlines and harvests energy from them to recharge, for persistent autonomous inspection for utilities and defense.
- Secured an $80K paid pilot (started July 2026); accepted into the Humanmade accelerator.
- Demonstrated the Kestrel working prototype on a mock line at the JIFX 26-4 experiment, Camp Roberts (Aug 2026). Next milestone: live-line landing.
- Registered the company on SAM.gov (active Oct 2026) to pursue government contracts.

ENGINEERING EXPERIENCE

QA Engineer III · *Confidential FAANG client (via Iconma)* May 2025 – Apr 2026

- Owned electrical validation of touch-sensor and impedance behavior on consumer tablets across charger configurations, using impedance analyzers and Python data tooling.

Hardware Display Test Engineer · *Meta (via Basic Solutions)* Dec 2024 – Jan 2025

- Acting lab manager leading a team of 3; built an inventory tracking system that improved asset-management efficiency by 20%.

Senior Engineer · *Cruise (via Apex Systems)* Jul 2024 – Nov 2024

- Ran electrical testing of lidar and cameras, including off-site long-range lidar and ground-truth testing.
- Acting lab manager for millions of dollars in lab assets, covering tracking and calibration.

Optical Engineer II · *Meta (via Mindlance)* Jan 2022 – Jan 2024

- Built Python applications and test automation for sensor and display testing, integrated into ground-truth testing and external OLED/LCD manufacturing.

Test Technician · Johnson & Johnson 2021 – 2022
Optical Lab Technician · Facebook (via Accenture) 2018 – 2020
Test Technician · Molecular Devices 2017 – 2018
Application Engineer · Camtek 2016 – 2017
PDM Analyst · Google 2016
PDM · Velodyne Lidar 2014 – 2015
Production Manager · Diablo Valley Signs 2010 – 2013

EDUCATION

M.S. Computer Science · *Arizona State University* Expected Spring 2027

B.S. Electrical Engineering · *San Jose State University* 2015

SKILLS

Hardware: prototype bring-up, PCBA test, sensor and lidar validation, optical and electrical test equipment
Software: Python, C++, MATLAB, test automation · **Business:** pilots, government registration (SAM.gov), team leadership