

# Lukas J. Vasadi

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## Experience

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**Cellino Biotech Inc.** | Cambridge MA May 2021 – Present

*Software Engineering Team Lead* Oct 2025 – Present

- Leading development of the flagship *Nebula* stem cell production system control software
- Instituted a bio user feature request pipeline to eliminate conflicting work streams
- Formalized hiring process and identified cost savings opportunities totaling over \$70k

*Senior Engineer* Jun 2023 – Oct 2025

- Architected the company *de facto* standard for high-level instrument control applications
- Developed an instrument controller to automate cell imaging and scanning experiments
- Wrote a desktop application to command instrument and view real-time data streams via TCP

*Engineer* May 2021 – May 2023

- Designed a concept high-speed microscopy instrument that doubled sample throughput
- Conducted optical experiments to evaluate quantitative phase imaging for cell detection
- Developed a desktop application for experimenters to “annotate” images for laser cell removal

**Abselion Ltd.** | Cambridge UK Feb 2019 – Apr 2021

*Engineer*

- Prototyped an instrument (now commercial device) that helped raise over £2m in seed funding
- Designed and fabricated biosensing transistors using MEMS manufacturing techniques
- Created PCBs and firmware to modulate/record electrode potentials in electrochemical cell
- Developed a low-cost consumable sensor package that saved over £600k in development cost

## Education

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**Cambridge University** | Cambridge UK

MPhil Engineering, Whitaker International Fellow

2018

Thesis: On simulating respiration mechanics in 3D trachea tissue cultures

**Stony Brook University** | Stony Brook NY

BE Biomedical Engineering, Minor Writing & Rhetoric, *Magna Cum Laude*

2016

Provost's Award for Academic Excellence, Richard W. Reeder Endowed Scholarship

Department teaching assistant for solid mechanics and research methods courses

Division I Athlete, Cross Country & Track, 2012-14

Resident Assistant, 2013-16

## Skills

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<b>Programming</b>	C/C++, Python, JavaScript, HTML/CSS, L <sup>A</sup> T <sub>E</sub> X
<b>Frameworks / SDKs</b>	Qt, SvelteKit, STM32
<b>Design</b>	SolidWorks, Eagle, AutoCAD
<b>Fabrication</b>	Lithography, Thin-Film Deposition, Chemical Etching

## Patents

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M. Wagner, S. Avivo, et al., "Platforms and Systems for Automated Cell Culture" U.S. Patent No. 17/930,413, Mar 19, 2024.

A.M. Patil, P. Romele, et al., "System and Methods for Dipping Electrical Sensor for Measuring Properties of Molecules" US Patent Appl. No. 18/574,368, Jul 7, 2022.

## Internships

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Amgen Scholars Program, Columbia University	2016
Summer Apprenticeship Program, NASA Johnson Space Center	2015
Summer Undergraduate Research Program, NYU Hospital for Joint Diseases	2014

## Select Awards

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Whitaker International Fellowship, Whitaker Foundation	2017
Distinguished Athlete Award, United States Marine Corps	2012
Sportsmanship Award, New York State Public High School Athletic Association	2012

## Select Conference Abstracts

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**L.J. Vasadi**, R. Wang, et al., "Biosensor for rapid detection of influenza with high sensitivity," presented at the *Engineering in Medicine and Biology 41st Conference*, Berlin, 2019.

**L.J. Vasadi**, Y. Liu, et al., "Simulating respiration mechanics in three-dimensional airway tissue cultures," presented at the *European Society of Biomechanics 25th Congress*, Vienna, 2019.

Y. Yu, **L.J. Vasadi**, et al., "Microstructural and tissue-level mechanical changes in subchondral bone in osteoarthritis with/without type 2 diabetes," presented at the *Orthopedic Research Society Annual Meeting*, San Diego CA, 2017.

**L.J. Vasadi**, E.R. Specter, et al., "Recommended methods for monitoring skeletal health in astronauts to distinguish specific effects of prolonged spaceflight," presented at the *Aerospace Medical Association 87th Annual Scientific Meeting*, Atlantic City CA, 2016.