

EDUCATION

University of Southern California, Los Angeles, CA

August 2020-May 2024

- *Viterbi School of Engineering*: BSE in Biomedical Engineering
- *Organizations*: TAMID (VP), HFES (Founder/Treasurer), Trojan Scholars Society, Associated Society of Biomedical Engineers, Society of Women Engineers
- *Achievements*: Presidential Scholarship (half tuition scholarship awarded to 3% of undergraduates), Grand Challenges Scholars Program
- *Cumulative GPA*: 3.8/4.0

National University of Singapore, Singapore

Jan 2023-May 2023

- *NUS College of Design and Engineering*: BEng in Biomedical Engineering

PROFESSIONAL EXPERIENCE

iCardio.ai, *VP of Product and Operations*, Los Angeles, CA

July 2024-Present

- Own product roadmap for commercial products (EchoMeasure, CardioVision, EchoGPT); wrote PRDs, defined success metrics/OKRs, and lead sprint planning across eng/ML/clinical review.
- Project-manage a 8-figure intracardiac echo guidance program for a major med-device manufacturer (Abbott), aligning clinical requirements with ML performance targets and delivery milestones.
- Go-to-market: built financial and usage models/cases for hospital ROI (staff time saved, added case capture, reimbursement strategy); supported fundraising for a \$4M seed round (lead secured).
- Secured partnerships with 4 industry and academic partners, enabling new product pilots and fueling pipeline opportunities.
- Author proposals for med tech and pharma algorithms targeting mitral regurgitation and pulmonary arterial hypertension.

Cedars-Sinai Accelerator, *Associate*, Los Angeles, CA

June 2024-October 2024

- Managed operations for the Class 10 cohort (10 startups), coordinating mentor sessions, pitch events, and progress tracking.
- Built financial models for iCardio.ai, forecasting revenue streams for three diagnostic tools in structural heart disease.

EY Parthenon – Strategy and Transactions, *Summer Associate*, Los Angeles, CA

June 2023-August 2023

- Created a one-time costs dashboard using PowerBI for a spin-off transaction in the consumer healthcare product goods industry.
- Developed a robust financial variance model and an organizational costing model, playing a pivotal role in tracking spending vs budget forecast and presented it to the CTO of the spin-off company.

Deloitte S&O - Catalyst Division, *Strategy Consulting Summer Associate*, Tel Aviv, Israel

June 2022-August 2022

- Supported an innovation initiative for the largest port in Israel, collaborating with VC 500 to launch a startup accelerator.
- Analyzed 100+ BioTech startups to map the synthetic biology-FoodTech value chain for multinational clients.
- Scouted 50+ international cyber, automotive, and life sciences startups for acquisition by a Chinese automotive manufacturer.

AI / ML PRODUCT IMPACT HIGHLIGHTS

CardioVision – FDA Summative Usability Study (Human Factors)

- Designed & executed the formal study (n = 15 clinicians, 5 tasks, 100% task-success) that de-risked workflow for the 510(k); folded findings into UI tweaks and the design-mitigation matrix.

Smart Seg – Labeler Prediction + Continuous Learning (Internal Data-Labeling Tool)

- Led discovery sprints with 4 sonographers; time-motion study showed ~55 min/study (45-65 DICOMs) with > 70 % spent manually drawing contours.
- Designed a “Predict → Edit” UX: the model auto-generates a contour composed of adjustable anchor points (fine-grain dots around the shape), letting reviewers pull points in/out to refine the boundary instead of redrawing from scratch.
- Partnered with ML to build the prediction engine and with SWE to productionize the pipeline. Pilot (n = 50 studies) cut labeling time and costs/study ~30%.

AI Agents

- Vibe-coded agents to automate repetitive tasks—e.g., a weekly “Echo AI Digest” that crawls PubMed & arXiv, ranks new AI+echo papers, and auto-emails the top ~15 insights to the entire company. This Agent saves ≈ 2 hrs manual effort per each week and requires zero upkeep.

CardioGPT – Retrieval-Augmented Generation Platform (in stealth)

- Leading product-research for a large-scale cardiology RAG assistant: interviewed 26 cardiologists/echo techs/Abbott specialists, distilled top use-cases, scoped data sources, authoring a 12-month PRD & risk matrix, aligned ML, regulatory, Cedars IRB, and Clinical Champions.
- Working to secure exec green-light and budget for MVP build-out.

PUBLICATIONS & ABSTRACTS

- *Automated Detection of Clinically Significant Mitral Regurgitation from Single-View B-mode Echocardiography Using Deep Learning*. **Co-author; under review (JACC / JASE 2025)**
- *Auto-Contour LA — A Semantic Segmentation Approach to Left Atrial Navigation in Intracardiac Echocardiography*. **Co-author; abstract accepted (HRX 2025)**
- *Methods and Assessments of Fully Automated Echocardiographic Quantification*. **Co-author; manuscript in prep (2025)**

SKILLS AND INTERESTS

Language: Russian (Professional Working Proficiency)

Technical Skills: JIRA, Figma, PowerBI, Solidworks (CAD), Technical Writing, DICOM / HL7 / FHIR, AI Prompt Engineering

Interests: Travel-33 Countries | Recipe Testing | Green Architecture | IP Law | Game Night Host | Tropical House Music | Low-Code Tools | Street Food