# Lundeen Cahilly

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## EDUCATION

**Stanford University**                                  *Computer Science & Engineering Physics*
*Stanford, CA*                                                          *Sep. 2024 – Jun. 2028*
- GPA: 4.06/4.0
- Coursework: Mechanics and Special Relativity, Linear Algebra and Multivariable Calculus, Into the Metaverse: Designing the Future of Virtual Worlds, Programming Methodologies, An Intro to Making & EE

**Phillips Academy**
*Andover, MA*                                                           *Aug. 2020 – Jun. 2024*
- GPA: 5.97/6.0      *(top decile: 5.8/6.0)*
- Coursework: Modern Physics, Astronomy Research, AP Physics C Mechanics and E&M, The Art of Persuasion

## EXPERIENCE

**Stanford Space Initiative**                               *Satellite Software & Avionics Engineer*
*Stanford, CA*                                                          *Sep. 2024 – Present*
- Developed and tested detumbling algorithms to stabilize our cubesat after Falcon 9 separation, testing and validating magnetorquer performance through high-precision magnetic field measurements
- Designed our z-panel magnetorquer - the only new electronic component in our cubesat this year - by developing design software that draws the circuit of the best-possible magnetorquer given *any* design constraints directly into CAD software

**Dragon Group LLC**                                                          *Analyst*
*Stanford, CA*                                                          *Jun. 2017 – Aug. 2024*
- Developed financial models and identified key strategic nuances as part of a 10-person core team, including Lisa and Alex Bhathal, to successfully secure the Bhathal family's acquisition of Portland's new WNBA franchise
- Spent 1 month in São Paulo working with media-tech founders in video streaming & data-driven content creation to translate their success to global markets
- Identified Unreal Engine's hidden value during the 2017 Fortnite bubble, directly leading to Epic Games invest't

**The Ligado Society**                                            *Cofounder, Board of Directors*
*Greenwich, CT*                                                         *May 2017 – Present*
- 501(c)(3) inclusive tech startup helping marginalized Portuguese-speaking kids esp. in Mozambique & Brazil
- Created & distributed high-value digital COVID-19 info reaching $\geq 50k$ Mozambicans on a regular basis

## PROJECTS & RESEARCH

**Corsair Investment Theses & Acquisition** | *Due Diligence, Market Research*      *May 2017 – Dec. 2019*
- Conducted comprehensive due diligence and wrote investment theses analyzing emerging trends in the gaming ecosystem, directly leading to Dragon Group's initial Corsair Gaming investment
- Leveraged intimate understanding of the gaming ecosystem to identify opportunities post-acquisition, leading to Corsair's subsequent acquisitions of Elgato (content creation), Origin (custom PCs), and SCUF (controllers)

**Wafflr** | *Python, React Native, Typescript*                              *May 2024 – Present*
- College dining startup enabling students with ML to easily find healthy and safe meals, especially athletes and students with food restrictions including myself and cofounder Max Huang (UChicago XC/TF '28)
- Provide real-time student feedback to dining providers to enable targeted improvements in nutrition and food waste reduction
- Scheduled to go live at Stanford & UChicago campuses in Q1 2025

**HEIMDALL Protocol** | *Solidity, Whitepaper*                              *Jun. 2023 – Aug. 2023*
- Wrote whitepaper proposing architecture of a purpose-built decentralized autonomous organization (DAO) for NASA challenge proposals (e.g., Mars XR challenge) that provides teams access to cheap, information-sensitive compute
- Architecture incorporates distributed compute, game theory, NASA oracles, & zero-knowledge proofs to optimize digital twin development and simulation while maintaining ITAR compliance

**TESS Exoplanet Transit Analysis** | *Observatory Operation, Python*         *Dec. 2023 – Mar. 2024*
- Operated observatory monitoring exoplanet transits in collaboration with the NASA/MIT TESS exoplanet mission
- Produced light curves for 3 exoplanet candidates through differential photometry and time-series analysis

## SKILLS

**Technical:** Python, C++, C, Javascript (Next.js, React Native, Typescript), HTML/CSS, Unreal Engine 5, Solidity, KiCAD, Git, Embedded Software, Microcontrollers, PCB Design, Observatory Operation
**Other:** Excel, Financial Modeling, Due Diligence, Strategic Advisory, Market Research
**Languages**: English, Portuguese (Limited proficiency)