CONNOR LINEHAN

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EDUCATION

Virginia Tech — Blacksburg, VA — Expected May 2029
B.S. Industrial and Systems Engineering — GPA: 3.55/4.0
Minor – Artificial Intelligence

EXPERIENCE

Virgina Tech — *Undergraduate Researcher,* Blacksburg, VA — August 2026 – Present
- Analyzed data on surgical skill assessment using a multimodal laparoscopic peg-transfer dataset containing tool motion, wrist motion, eye-gaze, and video performance data.
- Built Python workflows, feature engineering, visualization, and preliminary machine learning analysis to evaluate the relationship between gaze patterns and surgeon technical level.

UtProSat — *Systems Engineer,* Blacksburg, VA — September 2026 – Present
- Learning MBSE skills to structure Cube Satellite mission planning goals using Charter Space software, Ubik.

Connor's Cuts — *Founder and Hairstylist*, Blacksburg, VA — May 2025 – Present
- Grew a hair-styling business through social media marketing while carrying a full engineering course load.
- Tracked appointments, revenue trends, and inventory in Excel to optimize scheduling and resource management.

York County Mosquito Control — *Mosquito Intern,* Yorktown, VA — June – August 2025
- Identified mosquito species using a dichotomous key and logged findings in GIS software to support West Nile Virus surveillance.
- Set up and collected field traps; repaired trap electrical components through soldering.

Connor's Power Washing + Landscaping — *Founder and Owner,* Yorktown, VA — May 2023 – July 2025
- Sourced clients, managed materials and pricing, and delivered residential power-washing jobs end to end.

High Sierra Pools — *Lifeguard*, Newport News, VA — June 2024 – August 2024
- Oversaw patron safety, coordinated guard rotations, patron check-in, and recorded daily incident and attendance data.

PASSION PROJECTS

NoRush. — Published iOS App — May 2026 - Present
- Designed, built, and published a SwiftUI/Firebase(google data storage) social media iOS app that grew to 50 users and prompts each user at one randomized time daily to share a photo within a seven-minute window. Implemented time zone aware push notifications.
- Developed a wholesome social media app combining features from other apps like BeReal, The Bible app, NYT Games, and Strava.
- Managed data storage to control operating costs while preserving the app's experience

XC Map — Published iOS App — May 2026 - Present
- Developed a community review app using 24,000+ cross-country courses and tracks with, reviews, ratings, and personal race logging.

BikeBook — Web App — July 2026 - Present
- Developed and deployed a bicycle-valuation web app using SQLite (data storage), and Vercel(hosting); designed a structured pricing model to evaluate how bike components and condition influence estimated value

FlowState— Beta iOS App — October 2026 - Present
- Developed an Industrial Engineering mobile game where users must balance cost, time, resources and space constraints to make and manage an efficient factory.

LEADERSHIP

Episcopal Campus Ministry — Service Chair; Blacksburg, VA — September 2026 – Present

Boy Scouts of America — Eagle Scout; Senior Patrol Leader. — January 2018 – March 2025
- Planned and led a 21-person volunteer team building a French drain at a local church, managing 2,500 lbs of gravel and over $900 in materials.
- Directed weekly meetings, coordinated a newsletter, led 50 scouts over six-month term; served 18 months as assistant senior patrol leader

Grafton Track and Cross Country — Team Captain — August 2021 – June 2025
- Elected by the coach to lead 30+ athletes; mentored younger runners on mentality, injury prevention, and racing.

York County Youth Commission — Vice Chair — August 2021 – June 2025
- Documented action-item summaries to a 10-person team; presented progress to the County Board of Supervisors.

ACTIVITIES

Clubs: IISE, UtProSat, Club Cross Country and Track, and Episcopal Campus Ministry
Hobbies: Road Biking, running, hiking, reading, and art

TECHNICAL SKILLS

Languages: Swift, SwiftUI TypeScript, JavaScript, Python, Java, HTML
Frameworks & Tools: React, Next.js, Prisma, Firebase (Auth, Firestore, Cloud Functions, Storage, FCM), SQLite, Vercel, GitHub
Other: MBSE(Magic SoS Architect), GIS, Matlab, Excel, SOLIDWORKS, AutoCAD Inventor, technical and professional writing