

Ayushmaan Bellum

10th Grade | Laurel Springs School | Folsom, CA

Email: bellumayush@gmail.com | GitHub: <https://github.com/ayushmaan-pcg> |
LinkedIn: <https://www.linkedin.com/in/ayushmaan-bellum-0a5025385> | Website:
www.ayushmaanbellum.com

Education

Laurel Springs School (Class of 2028)

- 10th Grade
- National Junior Honor Society (NJHS):
2022, 2024, 2025
- 4.0 GPA

Technical Skills

- **Programming:** Python, Swift (iOS), VS Code, C++ basics
- **Robotics:** CAD (On shape), Auton route planning, PID tuning, drivetrain & intake design; sensors (IMU, encoders)
- **Apps/Hardware:** CoreML, SwiftUI, ESP32 + BLE, firmware integration
- **Leadership/Creative:** Team management, teaching, video editing

Publications & Authorship

- **Book:** "The It Worked Yesterday Mystery: The VEX Programmer's Survival Guide" (2025, Amazon)
- **Research (First Author):** "Zeroing In: The Power of PID in Next-Gen Robotics" — NHSJS (2025)

Projects & Apps

- Peer Guard (AI peer-pressure coach, iOS)
- FSR Insole & Balance Tracker (ESP32 + iOS, real-time pressure)
- Published Android Game (Google Play)
- Monetized Minecraft YouTube channel, AI short films

Activities

- USTA League tennis (competitive)
- Advanced piano performer

Innovation & Inventions

- Dermaltyx — Patent Pending (Filed 2025)
Co-inventor of a pressure-injury prevention system using FSR sensors, predictive AI heatmaps, and iOS app.

Leadership & Team

- Founder, Captain, Programmer & Driver — Cognitaur 29712C (2021–Present)
- Multiple Tournament Champion, Skills Champion, Excellence, and Amaze Awards
- Designed advanced autonomous systems (IMU, encoders, PID)

Awards & Honors

- Special Congressional Recognition (2024)
Innovation & STEM
- Presidential Gold Volunteer Service Medal (2025)
- Certified Python Programmer — Python Institute (among the youngest recipients in the world)

Competitions

- CREATE U.S. Open Robotics Tournament — Invitee (2025)
- Consistent high-ranking placements at state/regional events across seasons