

Diego Hernandez

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Education

California State University, Northridge, BS in Computer Science August 2018 – May 2025

- **Coursework:** Calculus 1 & 2, Data Structures, Computer Architecture, Linear Algebra, Discrete Structure, Advanced Data Structures, Operating Systems, Software Engineering, Algorithm Design, Web Engineering 1 & 2, Human-Computer Interaction, Database Design, Networks and Security, Probability & Statistics, Senior Design

Experience

Robotics Coach, Harvard-Westlake School August 2025 - Present

- Teach engineering fundamentals and guide a highly competitive robotics team through the engineering design process, requirements analysis, and industry-standard software practices.
- Mentor students in developing C++ control systems, implementing PID, odometry, multithreading, and subsystem integration.

Software Engineer, Freelance – Remote January 2023 – May 2023

- Collaborated with engineering and manufacturing teams to design a multi-version software solution tailored to their internal processes.
- Built Python automation tools with a user-friendly UI to generate CAD approval reports and streamline large file transfers over VPN, reducing transfer times by 40-60% and saving up to 10-14 hours per task.

Awards/Certificates

Presenter, 29th Annual Student Research & Creative Works CSUNposium April 2025

SolidWorks Mechanical Design Associate Certificate December 2019

VEX Robotics VRC Competition Awards August 2014 - June 2018

- Programmer Award (2x), Regional Champions, Build Award, State Championship Qualification (2x)

Projects

Airline Ticketing System: Team Lead/Manager github.com/Dijuego/Comp-380-Project

- Features: Report generation and data dashboard, email confirmation, reserve seating, cancellation, and ticket modification. Tools Used: Java, JavaFX, JSON, IntelliJ IDEA, Github

Pick-Up (Ranked Basketball App): Team Lead/Manager github.com/Dijuego/comp490

- Features: REST API, Client/Server structure, profile page, friends list/search, match feed/history, ELO rating system, player honesty rating, inter-user interaction
- Tools Used: JavaScript, TypeScript, Node.js, React Native, Figma, Github, AWS EC2/RDS/Route53, MySQL, Caddy Server, Glitch

Multiple Websites 2024-2025

- Timed Type Racer, CSUN Campus Geo Guesser, 2020 NBA Post-Season Dashboard, IT Inventory Manager
- Tools Used: HTML, CSS, JavaScript, ASP.NET, Microsoft Sql Server, Angular, Entity Framework, JWT, SQLite, AWS EC2/RDS

Technologies

Languages: Java, C#, C++, SQL, JavaScript, Python, HTML, CSS, TypeScript

Technologies: ASP.NET, Microsoft SQL Server, Git, VS Code, Jira, Visual Studio, Figma, AutoCAD, SolidWorks, Node.js, React Native, MySQL, SQLite, Angular, AWS EC2/RDS/Route53, Expo, Zustand, Supabase