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 Project

Experience

Robotics Coach, Harvard-Westlake School   August 2025 - Present

- Coached and taught common engineering practices for highly competitive robotics competitions. Lessons include Foundational Engineering Requirements, the Engineering Design Process, guiding students on usage of 3D CAD, and software development industry standards.
- Guide students in the development of C++ software for robotic control systems including PID, Odometry, and multi-threading for simultaneous subsystem control

Software Engineer, Freelance – Remote   January 2023 – May 2023

- Collaborated with employees and contractors at an engineering and manufacturing company to design a product that required multiple versions to satisfy their needs
- Developed Python scripts with user-friendly UI to automate the creation of CAD file review and approval reports and bypass file explorer to improve upload/download speeds of large files across a VPN, cutting time by 40-60% saving 10-14 hours on some instances

Awards/Certificates

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