Noah Federovitch

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EDUCATION

Purdue University, College of Engineering — West Lafayette, IN
Computer Engineering — *Aug 2025 – Present*

- GPA: 3.99 / 4.00

PROFESSIONAL EXPERIENCE

Blankslate Innovation, LLC — Lubbock, TX • Hybrid
Software Engineering Intern (Consultant) — *May 2026 – Aug 2026*

- Led development of a rebuilt control system for an FTICR mass spectrometer
- Implemented Python-based, safety-critical hardware control over serial and I^2C protocols
- Built signal-processing pipelines replacing a legacy VB6 / LabVIEW stack

Game-dev AI NPC Sim (GAINS) — West Lafayette, IN
AI Research & Developer — *Aug 2025 – May 2026*

- Collaborated on the research and implementation of AI systems within Unreal Engine 5
- Developed behavior trees and perception models to improve hyper-realistic NPC interactions
- Prototyped NPC responses to various environmental factors, including weather and temperature
- Presented findings on realistic environments to improve NPC interaction at Purdue's 2025 Research Expo

Rec Room Inc. — Remote
Independent Game Designer — *Jan 2020 – Jun 2026*

- Designed, scripted, and published over 20 multiplayer games, achieving 11M+ plays and 85,000+ subscribers
- Specialized in level design, CV1 & CV2 programming, and 3D interior design to enhance user experience
- Collaborated with creators on cross-disciplinary projects, winning multiple contests hosted by Rec Room

LEADERSHIP AND INVOLVEMENT

Purdue SoCET (System-on-Chip Extension Technologies) — West Lafayette, IN
Chip Design Member (Intro 1 & STARS) — *Aug 2026 – Present*

- Intro 1: Purdue's ASIC flow on the asicfab servers, Linux, and a review-gated Git and pull-request workflow, applied in AFT-dev, the RISC-V SoC built from eleven versioned submodules
- STARS (Student Training Awareness and Readiness for Semiconductors): two-semester chip design track covering design and simulation, then FPGA prototyping and a tape-out for fabrication

Purdue Railside Robotics — West Lafayette, IN
Team 'ChuChu9000' — *Aug 2025 – Present*

- Built the full BattleBot master sketch in SolidWorks, including chassis, drivetrain, and weapon assemblies
- Collaborated on the transition from CAD design to 3D printing and soldering for electronic integration

Nottingham Chess Club — Hamilton, NJ
President & Founder — *Sept 2023 – Jun 2025*

- Led weekly chess lessons, providing personalized instruction to help members improve their game & tactics

PERSONAL PROJECTS

Aurora · Lofi Focus Station (iOS App) — apps.apple.com/app/id6796833999
Solo Developer — *Published Aug 2026*

- Designed, built, and published a lo-fi focus and Pomodoro timer to the Apple App Store
- Built a React + Vite progressive web app wrapped with Capacitor for iOS and Android native builds
- Implemented streaks, achievements, an on-device journal, and in-app purchases with no account or tracking

Live Depth Field — github.com/DecodedXR/LiveDepthField
Solo Developer — *Jul 2026*

- Built a browser tool that turns a live webcam feed or a photo into an explorable 3D point cloud, styled like Gaussian splats
- Estimates per-pixel depth on-device and re-projects the image into thousands of points rendered in real time with Three.js
- Fully client-side with no install or upload; live demo at decodedxr.github.io/LiveDepthField

SnipersVsRunners (Game) — Remote
Co-Developer — *Sep 2021 – Jun 2026*

- Developed and maintained a Rec Room game with 4.2M visits & 279K likes, driving software and engagement
- Co-owned with designer Daniel Green to create a multiplayer first-person shooter / parkour party game

RELEVANT SKILLS

- Proficient in Linux environments (Debian / EndeavourOS / Arch, terminal utilities, system configuration)
- Proficient in Programming (MATLAB, C, Python, C#, GDScript, Java, JavaScript, HTML, CSS, SystemVerilog)
- Experienced in CAD, 2D & 3D Graphics (SolidWorks, Canva, Photoshop, Unity, Godot, Unreal Engine)

HOBBIES

- Creative: Interior & graphic design; piano, keyboard percussion, drum set, acoustic guitar, video editing
- Athletic / Other: Rec tennis & badminton; first-degree Taekwondo black belt; 1100 Chess.com Rapid Elo