

# ELI SHAMIS

Aerospace Engineering Student · Purdue University

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## EDUCATION

### Purdue University — College of Engineering

B.S., Aerospace, Aeronautical & Astronautical Engineering

GPA: 3.55 / 4.00 · Semester Honors (Spring 2026)

West Lafayette, IN

Expected May 2029

### River Dell Regional High School

High School Diploma

Oradell, NJ

2021 – 2025

## TECHNICAL SKILLS

**CAD & Design:** SolidWorks, CATIA V5, Surface Modeling, GD&T, Rapid Prototyping, 3D Printing, Design for Manufacturing (DFM)

**Simulation:** Computational Fluid Dynamics (CFD), Siemens Star-CCM+

**Languages:** English (Native), Hebrew (Native), Finnish (Elementary), Italian (Elementary)

## EXPERIENCE

### Sim1Racing — Summer Racing Camp

Lead Instructor (Seasonal)

Paramus, NJ

Summer 2026

- Designed and led a five-day progressive racing curriculum for campers ages 7–17, teaching race craft across five simulator platforms (Formula 4 to Lamborghini Huracán GT3) — from controls and braking to the racing line, manual shifting, and wheel-to-wheel strategy.
- Built the full instructional presentation and daily lesson plans, culminating in a points-based championship on race day.
- Measured each camper's improvement by analyzing lap-time telemetry and racing data to tailor coaching and track progress.

### Aston Martin Aramco Formula One Team

Aerodynamics Design Intern (Research Apprenticeship)

Remote — Silverstone, UK

Dec 2022 – Sep 2025

- Completed a multi-year, part-time research apprenticeship under a lead aerodynamic design engineer.
- Created and developed aerodynamic components in CATIA V5, iterating geometry against CFD results.
- Gained first-hand exposure to professional motorsport engineering workflows, from concept surface to refined, manufacturable part.

### USA Hockey

Ice Hockey Referee (Part-time)

United States

May 2022 – Present

- Officiate games across a wide range of ages and skill levels; manage fast-paced, high-pressure situations while enforcing rules fairly and communicating with players and coaches.

## PROJECTS & INVOLVEMENT

### Pikes Peak Aero Design Project — Purdue University

- Design aerodynamic components in CAD and validate them through Star-CCM+ simulation before fabrication.

### Purdue Motorsports

- Rebuild go-kart driveshafts and perform wheel alignment on a classic MG racecar — hands-on mechanical work supporting the team's vehicles.

### CAD Portfolio — elishamis.com

- Seven self-directed CAD studies (SolidWorks) spanning surface modeling, powertrain components, and machined parts, each documented with design reasoning and lessons learned.

## LEADERSHIP & COMMUNITY

- Volunteer — River Edge Car Show (annual event, ~250 vehicles and 1,500+ visitors) and New Jersey Monarchs (non-profit supporting youth participation in organized sports).