

ADHVIK AGGARWAL

Industrial Designer | BFA, Rhode Island School of Design '27

+1 (484) 253-8926 · aaggarwa@risd.edu · adhvikaggarwal.com · <https://www.linkedin.com/in/adhvik-aggarwal/>

Industrial designer working between CAD and hands-on fabrication — additive manufacturing, carbon layups & machining. Currently Head Advisor on RISD's NASA HERC rover team (2nd place, 2025).

EDUCATION

Rhode Island School of Design

BFA, Industrial Design — Concentration in Drawing | GPA: 3.92 / 4.00

Teaching Assistant, Drawing Marathon — January 2026

Expected May 2027

Providence, RI

EXPERIENCE

Steering Subsystem Lead

RISD ASTRO (NASA Human Exploration Rover Challenge)

September 2023 — Present

Providence, RI

- Designed and fabricated the steering subsystem for RISD's tandem recumbent rover; led a 2-person sub-team within the core engineering group.
- Engineered a modified parallelogram linkage to minimize bump-steer and isolate handle articulation from the chassis body.
- Produced carbon fiber wet-layup components using 3D-printed PETG molds; integrated SLS-printed nylon bushings and in-house turned aluminum collars.
- Contributed to a 20% chassis weight reduction year-over-year while meeting full structural and reliability requirements.

Results: 2nd place overall, Phoenix Award, Best Task Tool Award — NASA HERC 2025.

Head Monitor — Industrial Design CAD Lab

Rhode Island School of Design

August 2025 — Present

Providence, RI

- Led a 4-week summer lab renovation — commissioned 5 new SLA printers, built out expanded storage with a student work Hall of Fame, and developed a new monitor onboarding curriculum with updated lab guidelines.
- Manage RISD's Industrial Design digital fabrication lab, including 10 FDM and 6 SLA printers, laser cutters, and 3D scanners.
- Train and mentor approximately 15 students per semester in Rhino, SolidWorks, Keyshot, and Adobe Creative Suite workflows.
- Diagnose and repair hardware faults across the print farm; oversee scheduling, consumables inventory, and preventive maintenance cycles.

Industrial Design Intern

Direct Create

June — August 2025

New Delhi, IN

- Produced CAD models, photorealistic renders, and product presentation decks for 12 handicraft artisan products targeting international buyers.
- Translated artisan-built physical prototypes into manufacturable CAD files using Rhino and Keyshot.
- Developed pitch materials including product specifications, buyer-facing renders, and category overviews used in client presentations.

Writer & Illustrator

Desi-gned Magazine, V3

September 2024 — May 2025

Providence, RI

- Authored a feature article for V3 of New England's first South Asian diaspora magazine.
- Produced 11 handcrafted illustrations across the issue in graphite and colored pencil.

Industrial Design Intern

Vyom Architects

June — August 2024

New Delhi, IN

- Designed a 8-piece line of architecture-inspired souvenirs for the Indian retail market.
- Translated landmark architecture from major Indian cities into CAD models optimized for CNC machining and laser cutting in wood and metal.
- Prototyped production samples and developed presentation decks for internal stakeholder review.

SKILLS

CAD & Visualization

SolidWorks, Rhino, Fusion 360, Keyshot, nTop

Design Software

Adobe Creative Suite (Illustrator, Photoshop, InDesign, Premiere, Lightroom), Figma, Procreate

Fabrication

FDM/SLA 3D printing, CNC, laser cutting, manual machining, carbon fiber wet layup, clay and foam modeling, hand sketching