Ryan Sehgal

Industrial Designer / Products, mechanisms, design research

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Industrial designer who takes products from user research to tested prototype to factory drawings: a purifier made 35% smaller with 10% more airflow, a frame that became a top-3 seller, a dispenser pouring for a paying client.

EDUCATION

Rhode Island School of Design · BFA Industrial Design · Providence, RI — Expected May 2028

Cross-registered at Brown University: Entrepreneurship Practicum (Starting & Scaling Ventures), Qualitative Market Research.

EXPERIENCE

Product Design Intern · BreatheEasy Labs, Delhi — Jul 2026 – Aug 2026

- Cut a metal air purifier's footprint **35% while raising airflow 10%** and holding noise level, by building and testing 5 progressively smaller internal layouts and moving to a circular architecture.
- Developed the final design in SolidWorks with assemblies and toleranced manufacturing drawings, working with engineers, the factory and sales; now **moving into factory production**.

Product Development & Market Research Intern · Hill Farm Organics, India — Dec 2025 – Jan 2026

- Shifted kombucha from bottles to B2B taps as bottle taxes rose: designed *Jiwa On Tap* in SolidWorks, a café dispenser built into a sheet-metal-clad chest freezer, then sourced materials, made a custom sheet-metal bending jig and built and tested it with a welder and carpenter.
- Pitched **8 targeted cafés, 4 signed on**; installed the first at WahTea, which still pours from it, and the frame was reused for a second brand. Ran fabrication and the team while the founder was away.

Tools Designer · RISD Rover Team, NASA Human Exploration Rover Challenge — Sep 2025 – Feb 2026

- As part of the tools team, designed a handheld water and soil sampling tool: developed **8 concepts into 2 prototypes**, modeled ergonomic handles in SolidWorks, tested carbon-fiber layups.
- The tool was integrated into the rover; it **completed both tasks in testing** and RISD placed **2nd overall**.

Design Intern · COCO LENI Eyewear, Goa — Jun 2025 – Jul 2025

- Learned CNC and CAM in a week, then designed the *Starke* sunglass frame in Fusion 360 and took it through CAM, G-code and 3-axis CNC milling to finishing; now **a top-3 seller in the brand's line**.
- Wrote the company-wide production SOP, **still posted on the manufacturing floor**.

Production & Design Intern · Kumar Brothers Co. (garment export), Faridabad — Jul 2024 – Aug 2024

- Coordinated ~20 **Splash Dubai** samples plus **Isabel Marant and ba&sh** samples: draping, fit checks, embroidery CAD; led interns.

Founder & Product Designer · Interact Kit, Delhi — May 2022 – Jul 2024

- Designed tactile activity kits for older adults with **~30 elderly users**; endorsed by rehab specialists and psychologists, piloted with 3 eldercare groups, **sold 100+ kits**; design patent planned.

PROJECTS

Telescoping Hook Tool · Independent project, with Providence firefighters — 2026

- Designed a latch that locks by shape with no open holes, after research with **9 firefighters at 3 stations** showed friction locks slip and pin locks jam with wet plaster. Tested an FDM joint and a small-scale aluminum joint, then built a **full-scale prototype in final materials** that locks at 6 lengths (4′8″–8′), replacing the shorter fixed hooks.

Fashion Designer · Fashion@Brown — Oct 2024 – Jan 2026

- Designed and built 2 pieces of a 4-piece collection shown at the **Vogue × Fashion@Brown runway**.

MoldReady, FireRoute & Crit · self-built design tools, live at ryansehgal.com — 2026

- MoldReady (moldready.com): an AI trained on 57,540 molding simulations predicts a part's fill in under 0.1 s and ranks every gate position, typically within ~7% of Autodesk Moldflow; truck-aware routing for fire engines; a collaboration platform for RISD students.
- Won a $500 NEN Challenge mini-grant (Oct 2026), judged by Spin Master co-founder Ronnen Harary, to build MoldReady's MVP.

SKILLS

CAD & Visualization: SolidWorks, Fusion 360, Rhino/Grasshopper, rendering (KeyShot, Blender), Adobe Creative Suite (Illustrator, Photoshop), Figma

Prototyping & Manufacturing: 3-axis CNC (CAM, G-code), 3D printing, laser cutting, carbon-fiber layup, sheet metal, metal and wood shop, sewing and pattern making, DFM, toleranced drawings

Design & Research: new product development (NPD), sketching and ideation, user and expert interviews, observation, workshops, market validation

AI & Digital: concept visualization (Vizcom, Midjourney), AI-assisted prototyping with Claude Code

Other: RISD Makeathon 3rd place (2024) · 4th at ISSO Nationals (swimming) · English, Hindi, conversational French and Spanish