



Akshay Patil

Industrial Designer & Production Engineer

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SKILLS

Professional

- Industrial Design
- Lighting Science and Design
- Production Engineering
- Industrial Management
- Product Development
- Additive manufacturing
- Prototyping & Testing
- Lean Production
- Design & User Research
- Photography & Editing
- Content writing
- Website Design
- Branding & Segmentation

Software

- Solidworks (certified expert)
- CatiaV5
- Keyshot
- MS Office
- Python
- Fusion 360
- Photoshop
- InDesign
- CES edupack

Languages

- English (native)
- Marathi (native)
- Hindi (fluent)
- Swedish (basic)

Hobbies

- Photography
- Trekking
- Motorcycling
- Guitar
- El. Tinkering

ABOUT

Focusing on the bigger picture is a constant driver of my growth. I research opportunities and solve problems with an analytical and user-centric approach by bridging engineering, design and development.

After a master's in industrial design, I co-founded a bootstrapped venture in customisable, sustainably designed, and state-of-the-art cordless lighting based on lighting science. The hands-on experience from product development was complemented by networking with Scandinavian lighting scientists and their community, enabling me to consult independently.

Experienced in guiding projects and connect different fields through collaboration, I am inspired to channel them into the domains of research and product development.

EXPERIENCE

Independent Projects (India, UAE, and Sweden)

Freelance & Personal (2023 - 2024)

- **Dr. D. Y. Patil School of Design** (Pune, India - April 2024)
Guest lecture about Industrial Design to the class of product design.
- **Terracotta Lamps** (Pune, India - November 2023)
Developed a series of terracotta lamps with a local traditional potter and sold them at an exhibition for Diwali.
- **Ericsson's Bar** (Lund, Sweden - April 2023):
Developed a lantern concept to integrate their existing portable lighting and menu with additive manufacturing of recycled materials.
- **Foodlicious** (Dubai, UAE - March 2023):
Designed the website for a QSR brand.

Swaas AB (Lund, Sweden - [link](#))

Design, Engineer, Research, & Co-founder

Incorporated startup for customizable cordless lights. (Feb 2021 - June 2024)

- Designed, engineered, and developed a customizable rechargeable lamp under circular economy with modular user-replaceable parts and electronics.
- Defined procurement requirements and project specifications based on the latest available technologies and competitive market analysis.
- Validated research with lighting scientists from Lund University and their European [lighting community](#), where I also participated in their study on flicker effects.
- Worked closely with multiple leading local and global manufacturers for prototyping and setting up production. (glass making, precision machining, finishing, lighting)
- Developed custom electronics solution with a professional LED manufacturer.
- Explored and tested various additive manufacturing technologies in metal, sand, EPDM composites, engineering and recycled plastics.
- Solely responsible for branding, content creation (photography/renders) and website design.
- Designed and executed stall exhibit at Stockholm Furniture Fair 2023.
- Exhibited at Southern Sweden Design Days 2023.

Persson Ljus & Arkitektur AB (Stockholm, Sweden)

Technical & Design Consultant

Startup for solar-lanterns aimed at users in rural Sub-Saharan. (Nov 2021 - Nov 2022)

- Validating mechanical design (FMEA) and overall engineering feasibility.
- Aiding with design and material choices according to circular economy.
- Researching relevant conforming standards for supporting product development.
- Sourcing LiFePO4 batteries for harsh and high-temperature environment.

EDUCATION

Master's in Industrial Design

Faculty of Engineering (LTH), Lund University
2020 - Lund, Sweden

Bachelor's in Production Engineering & Industrial Management

College of Engineering Pune (COEP)
2018 - Pune, India

INTERNSHIPS

Finearc Systems (Pune, India)

Engineering Intern

Designer and manufacturer of automated arc-welding systems. (Dec 2017 - May 2018)

- Evaluated ergonomics of the assembly line according to 5S framework.
- Optimised workspace by developing drawing viewing stands with in-house waste.
- Recognized potential paint wastage in production and proposed improvements by calculating its economic impact due to environment and equipment.

R.D. Enterprises (Pune, India)

Engineering Intern

Manufacturer of precision machined components. (June 2016 - Dec 2016)

- Supported Q&A department in implementing various lean-tools to analyze component defects.
- Designed a pneumatically powered fixture for rocker arm assembly resulting in 300% process time improvement while reducing workforce requirement by half.

OTHER

- Managing Lund University's website content for Milan Design Week 2019 and Stockholm Furniture Fair 2020.
- Supporting exhibit design for Stockholm Furniture Fair 2019 and co-host for panel discussion.
- Product photography & editing for Milan Design Week 2019.
- Render shots for Lund University's Student Formula Team 2019 unveil.
- Finalist at "Futuristic cockpit 2030 competition" by Faurecia India in 2017. ([link](#))

EXHIBITIONS

- Southern Sweden Design Days '23
- Stockholm Furniture Fair '23
- Stockholm Furniture Fair '20
- Lunar & Planetary Institute '19
(2-week study trip to NASA)
- Form/Design Center '19
- Stockholm Furniture Fair '19
- Milan Design Week '19

VOLUNTEERING

Association of Designers of India (July 2023 – Present)

- New trophy development and production for BOP Awards 2025.
(Sourcing vendors, CMF, DFM, and QA)
- Installation design for Pune Design Festival 2025. (PDF 2025)
- Part of the core team of ADI-Pune chapter to assist in event planning and management for spreading design awareness across India.
(UX Lighthouse 2023 and 2024, DEF 2024, PDF 2024, PDF 2025)
- Designed and hosted a design mentorship event for ADI to bring design awareness to start-ups.

A-Sektionen TLTH (2018 – 2020)

Student representative at Lund University to improve education quality & student life through weekly meetings and feedback.

Entrepreneurship Development Cell (2014 – 2016)

Part of the management team at College of Engineering, Pune to co-ordinate events on entrepreneurship by collaborating with local businesses & start-ups during undergraduate studies.

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