

DESIGNER | ENGINEER

Tanvi Olivia Singh

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EXPERIENCE

JUNE - AUGUST 2018

Splash.org (Autodesk Foundation Internship) | Seattle, WA

DESIGN ENGINEER INTERN

NGO that provides clean water for WASH (water, sanitation, and hygiene) to poor children in public schools, in major cities across Asia and Africa

- Designed and engineered a new plastic hand washing station and drinking water station to overcome challenges faced in previous fiberglass and concrete sinks.
- Developed and conducted usability tests based on HCD evaluation tools with children at the public schools in Kolkata (India), Addis Ababa (Ethiopia) and Seattle.
- Vetted plastic manufacturers and coordinated design handoff for manufacturing.

Techtronic Industries (TTI) | Anderson, SC

CONCEPT DESIGN INTERN

- Designed a new home automation product series in consumer electronics for the top home improvement supplies retailing company.
- Coordinated requirements across multi-disciplinary teams, and translated them into product features.
- Carried out competitive product analysis, benchmarked and conducted extensive user research for Ryobi, Rigid, Hart and Artic Cove.

Bjork Studio | Atlanta, GA

DESIGN INTERN

- Designed bespoke hand made furniture for interior designers and/or homeowners in Atlanta.
- Understood the client needs and vision through consultation meetings, inspiration images, and mood boards.
- Prepared shop drawings for the shop floor to manufacture once the final design was approved by the client.

Suzuki | Delhi, India

ASSISTANT MANAGER (AUTOMATION DESIGN)

- Owned three system automation products as the mechanical engineer for the Automation design lab.
- Designed the automation system by coordinating with suppliers, electrical engineers, finance, shop management, and fabricators. Further supervised installation of the automation systems.

JAN - AUGUST 2017

JUNE - DEC 2016

2013 - 2015

EDUCATION

2015 - 2018

MASTER OF INDUSTRIAL DESIGN

Georgia Institute of Technology

GPA 3.5

2009 - 2013

BACHELOR OF TECHNOLOGY

(MECHANICAL ENGINEERING)

Vellore Institute of Technology

GPA 4

RESEARCH

- Human Centered Design (HCD) process applied to DIY respiratory protection for ship-breaking yard workers in developing nations using locally available materials (Master's thesis- <https://indd.adobe.com/view/9ccc7ac1-4a64-43f6-9be4-cccc4a772d77>)
- Learning tools to improve classroom teaching in mechanics classes at Georgia Tech by applying rapid prototyping methods
- Sensory haptic feedback on smart clothing

SKILLS

Design

Mechanical design, human centered design, interaction architecture, UCD, 3D modeling, prototyping, RITE, journey mapping, empathy mapping, storyboarding.

Engineering

Materials and manufacturing, material science, machine component design, additive manufacturing, CAD, CAM, root cause analysis, structural analysis, FEA, DFMA, tolerance analysis, machine drawings.

Research

Field study, market research, benchmarking, quantitative research, qualitative interviews, participatory exploration.

Management

Resource allocation, project leadership, cross culture collaboration, customer discovery, cost analysis, product management.

Tools

Solidworks, solidedge, Autodesk fusion 360, sketch up, MSC nastran, unigraphics NX, adobe creative suite, keyshot, autoCAD, creo, 3D printing, arduino, form modelling, woodworking, laser cutting, MS office.

PATENTS

Modular motorized window covering (provisional)

TTI

Motorized window covering having powered modules (Provisional)

TTI