TURBIT

MIXED REALITY SERVICES

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PROTOTYPING LAB

DESIGN AND IMPLEMENTATION PROPOSAL

2026

June

Proposed To: Minha Riaz Khan
PRIME Rural

Proposed By: Turbit
Shillong, Meghalaya

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01 OVERVIEW

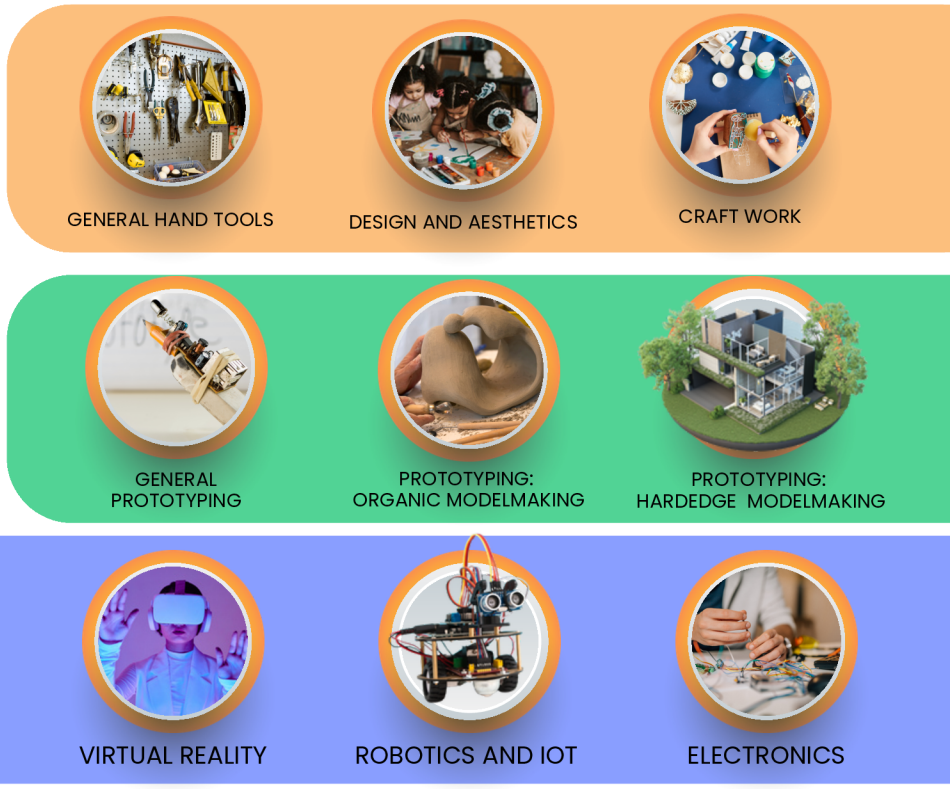
NATIONAL-LEVEL FACILITY FOR:

- **INCUBATION**
- **INDUSTRY COLLABORATION**
- **REGIONAL TECHNOLOGY EMPOWERMENT**

The proposed Prototyping Center will be equipped with a wide range of digital fabrication and traditional making tools, enabling users to transform ideas into tangible prototypes. The emphasis of the facility is on rapid prototyping, proof-of-concept development, product validation, and innovation-driven experimentation rather than full-scale industrial manufacturing.

The center will also function as a skill development and training facility, providing hands-on workshops and practical learning opportunities in areas such as digital fabrication, product design, electronics, robotics, prototyping methodologies, and emerging technologies, supporting both urban and rural communities across Meghalaya.

CATEGORIES



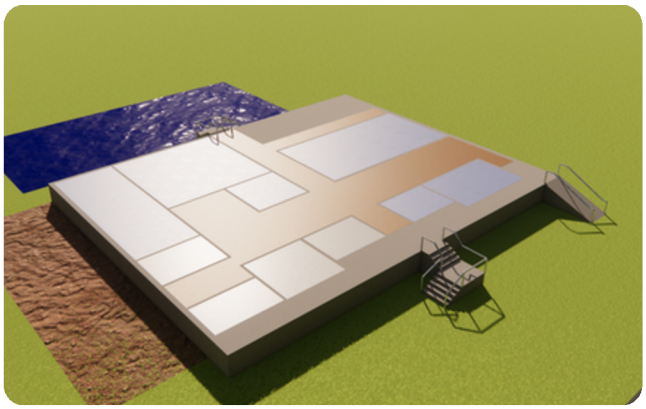
02 ROADMAP

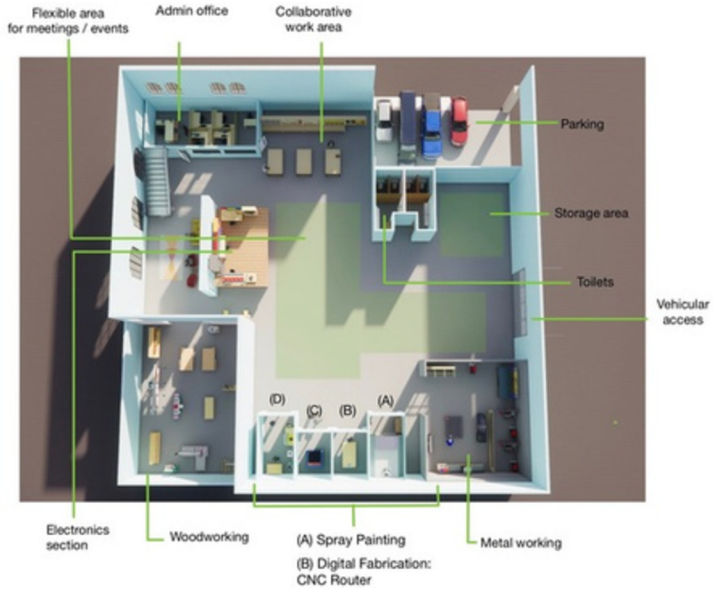
- Site assessment
- Clients need assessment
- Ideation
  - Listing various sections/areas
    - Reception area
    - Rapid Prototyping Area
    - Workshop/training area
    - Digital Fabrication Area
      - 3d Printing
      - Laser Cutting
      - CNC
      - 3d modelling
    - Electronics Lab
    - Product photography /content Creation Area
    - Spray Painting Booth
    - Meeting / Video Conferencing area
    - Gallery
    - Virtual Reality area
    - Breakout rooms
  - Workspace management
  - Tools requirement
  - Access and circulation
  - Storage
  - Safety
  - Electricals
  - Lighting
    - Functional
    - Spatial Division
    - Psychological Impact
- Procurement
- Execution of designed layout
- System implementation, recruitment and training

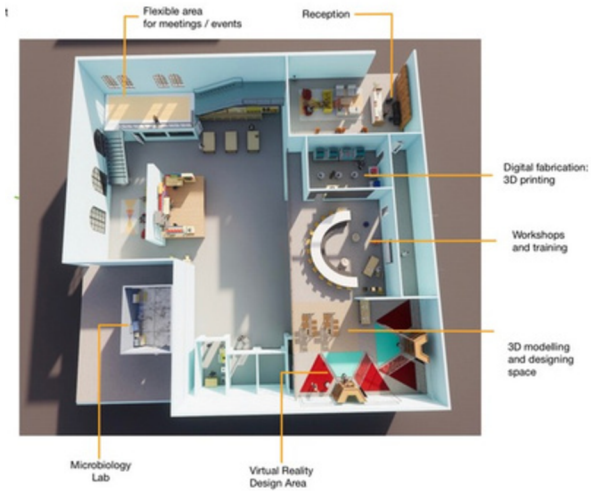
DESIGN AND SETUP

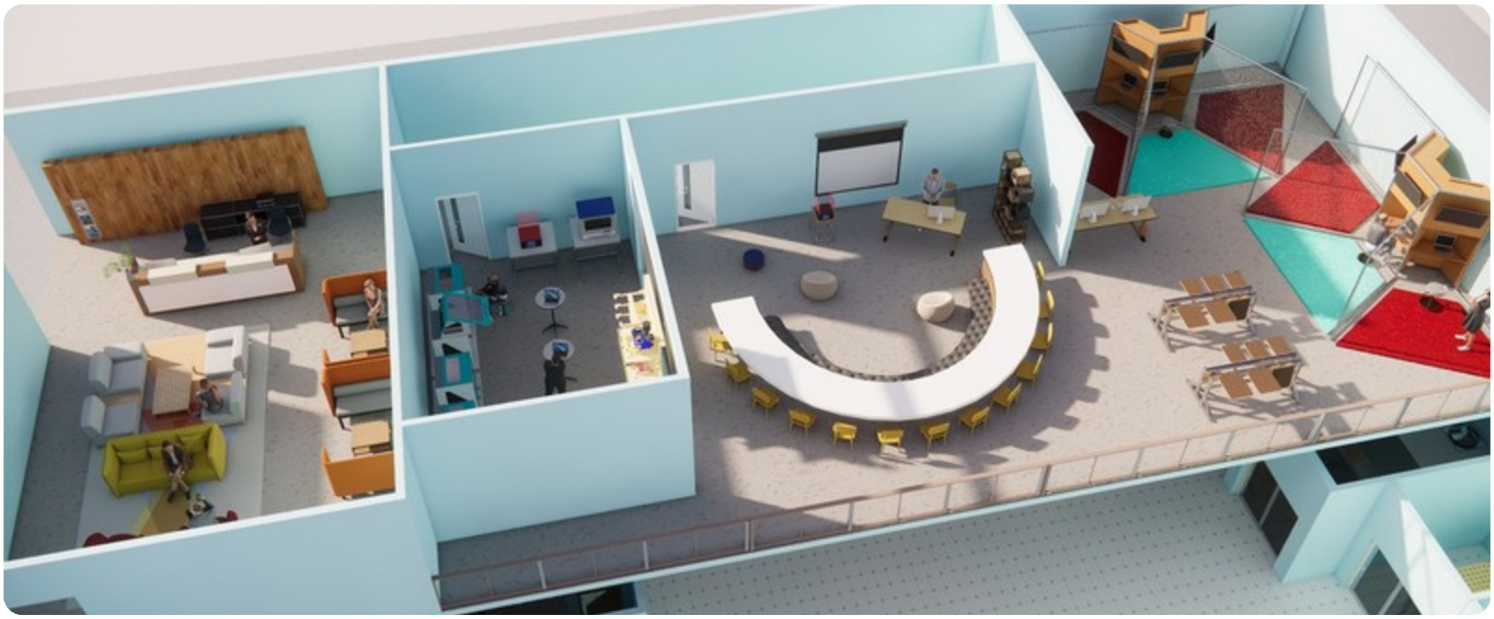
DESIGN AND LAYOUT

Note: The images below are examples of our work intended to act as placeholders. They provide a general insight into our design process. None of these images are AI generated and Turbit retains all rights to the designs displayed hereunder.









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03

DESIGN AND SETUP

USER EXPERIENCE AND DESIGN

Through our decade long journey of designing creative spaces, we've learned that the **look and the feel** of the space is the difference between a space that **invites curiosity and experimentation**, as opposed to a space that feels like a **random room with tools in it.**

At the same time, the **requirements** of a space in the northeast needs to be **calibrated to the aptitude, psychology and attitude** of the people of the north-east.

We propose to **design and implement systems** at the prototyping hubs to create spaces that actively encourage making, exploration, and collaboration.

ELEMENTS OF OUR CREATIVE SPACES

WORKSPACE MANAGEMENT

LEVERAGING PSYCHOLOGICAL EFFECTS OF LIGHTING AND COLOUR SCHEMES

TOOL STORAGE SYSTEMS

INSPIRATIONAL DISPLAYS AND USE CASES

INVENTORY TRACKING AND MANAGEMENT

SAFETY AND BEST PRACTICES

VISIT OUR MAKERSPACES IN STEREOSCOPIC VR

Scan to virtually visit our first Makerspace

DURATION: 4.08

Scan to virtually visit our flagship Makerspace

DURATION: 3.29

- Scan QR Code and follow link.
- Tap the icon on the screen.
- Turn phone sideways. Insert into the VR stereoscopic viewer.
- You are in! Look around!

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03

DESIGN AND SETUP

• CUSTOMISED TOOL STORAGE AND INVENTORY MANAGEMENT SYSTEMS

Custom designed and developed tool storage and display solutions / systems that :

- Display the different categories of tools available.
- Attract and elicit curiosity among visitors to the space.
- Keep all the sets of tools organised.
- Inventory management ie Easily shows if tools are missing or misplaced (particularly useful during workshops with multiple students)
- Reduces work table clutter

MODULAR SETUP

Different holders can be reconfigured and moved anywhere

GENERAL ORGANISER

MINI CHISEL HOLDER

BAR CLAMP ORGANISER

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FINANCIALS

PHASE 1: DESIGN AND SETUP COORDINATION	8,60,000/- ONE TIME SETUP FEE

SCOPE OF WORK / DELIVERABLES

- Site recce
- Needs assessment
- Lab concept development and functional planning
- Design of the facility
- VR designed layout
- Space zoning and workflow planning
- Equipment and technology recommendation
- Vendor and procurement advisory
- Setup supervision and installation coordination
- Safety, usage, and basic operational SOPs
- Staff orientation for basic lab operation

WHY TURBIT

OUR USP

WHAT DIFFERENTIATES US

- End-to-end Execution capability (not just consulting)
- Locally based startup (Shillong-based)
- 8+ years Experience in setting up and running creative spaces.
- Curated workshops and holistic skill building programs
- Ability and experience in integrating:
  - Hardware
  - Software
  - Traditional techniques
  - Latest modern digital techniques and tools.

RECOGNISED DOMAIN EXPERTISE

- Serve as creative consultants by Don Bosco Institute, Jorhat.
- Winner and recipient of a fellowship and grant from Meta (formerly Facebook)
- Partnering with NEHU, to setup and run the Design and Innovation Centre.
- Recognised as 'industry expert' in the field of virtual reality by MSME cell, Shillong.
- Empanelled Judge in MSME Idea Evaluation Committee for National Hackathon 2.0
- Represented Meghalaya as featured startup at the All India Design Innovation Center Meet held in New Delhi.
- Showcased our work and held demo session with Shri Piyush Goyal, hon' Union Minister, Government of India .
- Designed Innovation Lab for SELCO (Solar Electric Light Company) India, under the aegis of Atal Incubation Centre.
- Named as Top 10 visionary communicators, artists and public intellectuals of India, 2023
- Empanelled with AIC SELCO

Thank you!

Please contact us for further queries.

Winner of Fellowship and Grant in XR Startup Program by Meta (formerly Facebook).

Named as Top 10 visionary communicators, artists and public intellectuals of India, 2023

Partnering Organisations:

Clients and Collaborators:

97740-02603 / 97740-77050

turbit.co.in

turbit.shillong@gmail.com

Turbit

turbit_shillong

Turbit Shillong