# PORTFOLIO - 2021

Utkarsh Singh

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I consider myself to be a designer for mobility. As a designer, I'm constantly trying to frame my own meaning of mobility. Mobility goes beyond the conventional meaning of transporting people from A to B. To me, it resonates with freedom, to move ahead with intent. This opens my world from designing prosthetics to payload for satellites.

I have a backgroung in mechanical \$ manufacturing engineering ,\$ want to combine these expertise to design products for the mass audience.

Education
B.Tech in Mechanical + M.tech in Advance Manufacturing
IIITDM Kancheepuram, Chennai India

M.Sc Integrated Product Design
Delft University of Technology, Netherlands





- An Academic project, now a startup

- Team: Started with 3, currently 8

-Duration: 2018- current
- Current role: Consultant
User Research, Product Visualisation,
Video editing

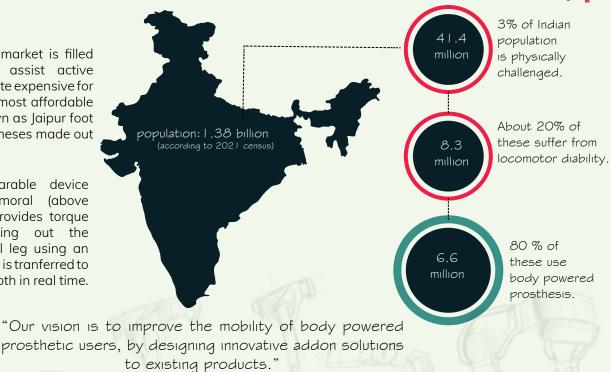


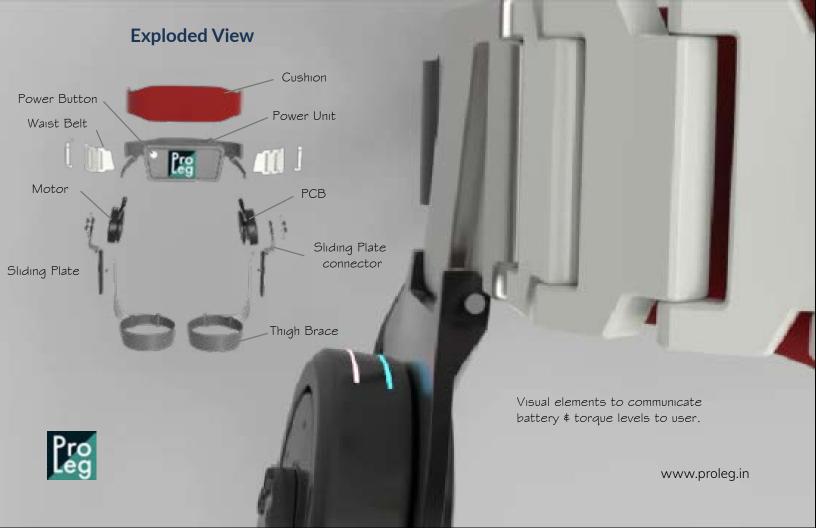
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### **Project Brief**

While in the western market is filled with prostheses that assist active movement, these are quite expensive for the indian market. The most affordable option available is known as Jaipur foot - a body powered prostheses made out off PVC.

Swayam is a wearable device designed for transfemoral (above knee) amputees . It provides torque assistance by mapping out the motion of the natural leg using an accelerometer. This data is transferred to the motor using bluetooth in real time.







### **A** - KNIGHT LIGHT

- Academic project

- Team : 4

-Duration: October'21 - November'21

- Role : Consultant

Market Analysis, User Research, Product Visualisation, Renders



#### Problem stament

Young adults whose bikes are stolen or forgotten, are unsafely biking in the dark.

### Design challenge

Design a bike light for young adults that is unstealable and unforgettavle

### Brief

The light is integrated into the lock, creating a new multipurpose product for AXA's portfolio. AXA is owned bt the Allegion Security company, so their overall focus is on bike security through their locks. However, their lights do not share the same amount of safety. Most users from research, struggled to remember their bikes lights, or had their lights stolen multiple times. The knight light ensures the light is always secure & ensures user safety in the dark.

### Final Concept

