

2017

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Professional Portfolio

Loguprasath KN

“Purpose Makes Product Better”

2024

Product Development &
Manufacturing

2017

Place : Tvasta Manufacturing Solutions Pvt.Ltd Design Engineer-Chennai

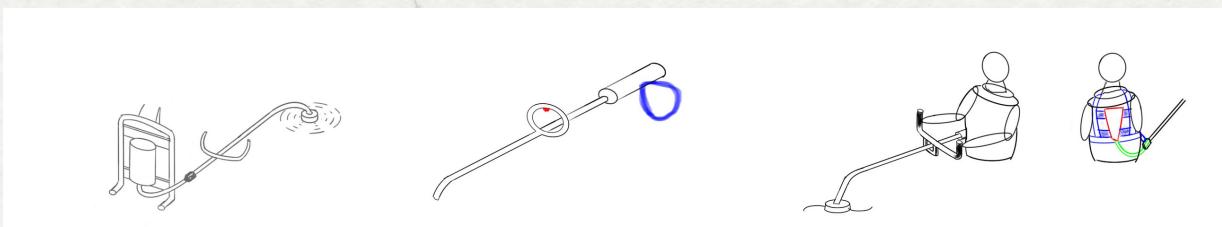
As young Startup we at Tvasta are able to work at our full potential at the time, the first project i worked was

Full Electric De-Weeding Equipmeant (1.5 Week)

The primary customers one those are living in rural areas.

The product promises following...

- 1.Less Vibration
- 2.Low Noise
- 3.Easy Operation
- 4.Eco-Freindly
- 5.Low Weight.



What's in it for company:

- Quickest Concept to Design Phase ever done (1 week)
- First ever portable device
- New Vendors for Aluminum and special profiles

What's in it for me:

- Human Machine interaction Design Approach
- Project Coordination & Execution
- New Vendors contact
- Quick exposure to Chennai Industrial Area's

Project Current Status: **Abandoned before Manufacturing**

Tools Used:

 **SOLIDWORKS**

 **Ansys**
WORKBENCH



2019

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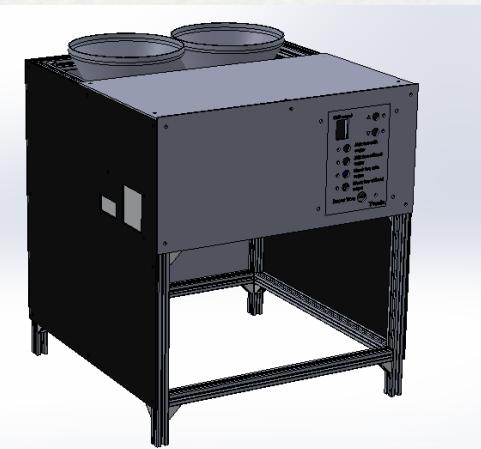
2017

Place : Tvasta Manufacturing Solutions Pvt.Ltd Design Engineer-Chennai

Fresh Tea Vending Machine (1 Month)

Customers: IT-Companies, Office Setups, Small Tea Booths.
The product promises following...

- 1.Fresh Tea at every time
- 2.Offers Mild,Medium,Strong Tea
- 3.No Operational Skill
- 4.Compact Design
- 5.Self Cleaning Cycle
- 6.Less Spending/Tea



What's in it for company:

- A successful External Consulting project
- Reinstating the importance of industrial design
- Gave a confidence for more consulting Projects

What's in it for me:

- Broad View about Consumable Products like Tea, Sugar....etc
- Exposure to professionals Industrial Design Domain
- Importance of User interface and limited options

Project Current Status: Project Successfully handed over to Client & Currently moving towards a manufacturing phase after success in the test Market

Tools Used:

 **SOLIDWORKS**


Ansys
WORKBENCH


ARDUINO

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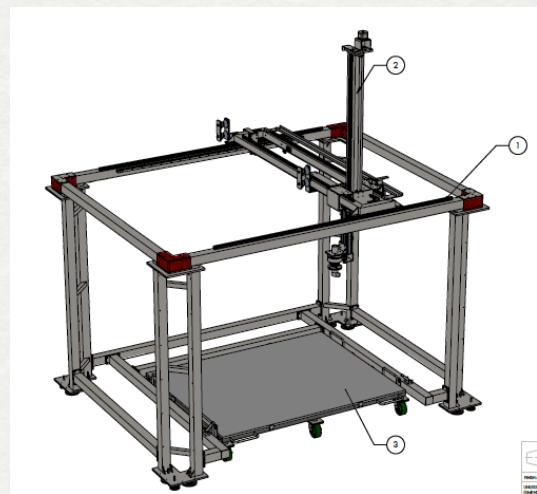
2017

Place : Tvasta Manufacturing Solutions Pvt.Ltd Senior Design Engineer – Chennai & Bengaluru

Concrete 3D Printer (10 Months)

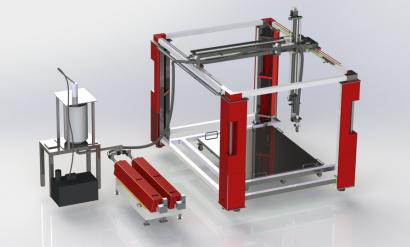
Customer: IIT-M & One of the India's Leading Construction Company

- 1.1.5mx1.5mx2m Build Area
2. Quick Print bet Change Over
3. Self Cleaning Cycle.



What's in it for company:

- India's First Large Scale 3D Printer
- World Wide Recognition in 3D Printing Industry
- Robust Production Platform for Service Sector
- Paved way for more investors.



What's in it for me:

- Importance of Dynamic Analysis
- Effect of Cutting Speed in large Scale Structures
- Hydraulics, Stepper Motors, Slicing Algorithms.....etc



Project Current Status: Machine retired after company introduced Articulated robots for major operations. Still Serves in IIT-M for lab purpose (Known as "Production Printer" at its service time).

Tools Used:

SOLIDWORKS

Ansys
WORKBENCH

ALTAIR
HYPERMESH

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2017

Place : Tvasta Manufacturing Solutions Pvt.Ltd Senior Design Engineer – Chennai & Bengaluru

Concrete Pump (1 Months)

Customer: IIT-M & One of the India's Leading Construction Company

1. Support Device for Concrete 3D Printer

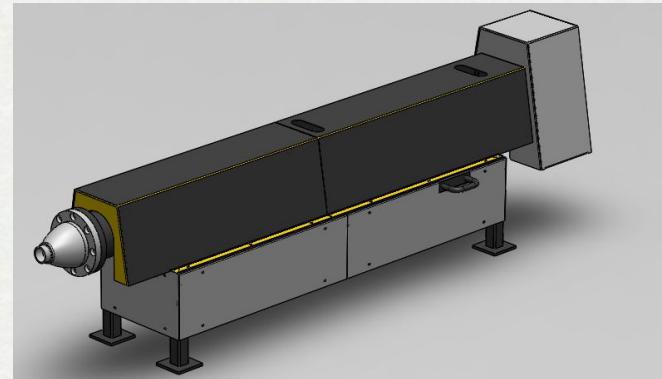
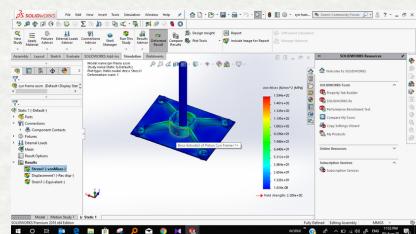
2. Piston Type

3. Single & Dual Type

4. Hydraulic operated

5. Can be Interfaced with Printer

6. Portable



What's in it for company:

- Pump Integrated Printer
- Proprietary technology
- Scalable for All type of Concrete Mixtures Used at the time

What's in it for me:

- Hydraulic - Electronic Interface
- Basics about Fluid Flow
- Full Scale Fabrication

Project Current Status: Later Converted in to Tandem Pump, Still used with articulated robot hands.

Tools Used:

SOLIDWORKS

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EDEM

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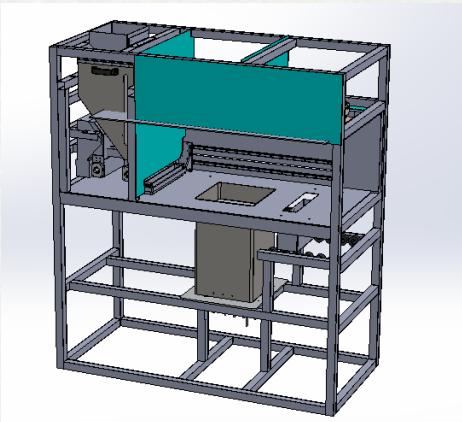
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Place : Tvasta Manufacturing Solutions Pvt.Ltd

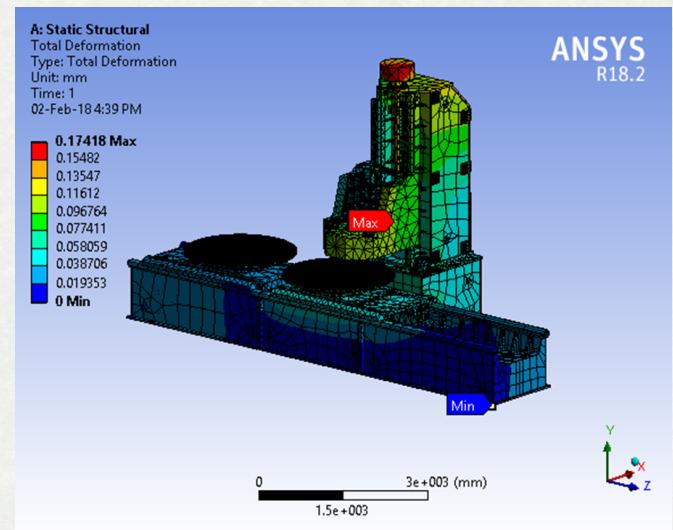
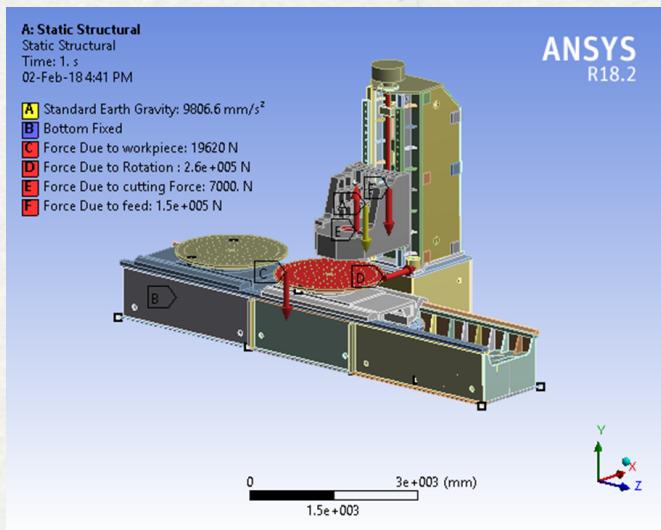
Senior Design Engineer

SLS Printer- Design



Peek Material Printer - Initiation

Vibration Analysis For Large Milling Machine



Tools Used:

SOLIDWORKS

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ALTAIR
HYPERMESH

EDEM

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Place : Mechcreatio Industrial Solutions Pvt.Ltd
Lead Design Engineer - Chennai & Coimbatore



www.rowerindia.com

Above 10mm Seeding Machine (MASS)

Named after the target audience "MASS" opened the largest market holding in seeding sector for RoWeR



What's in it for company:

- Largest Market Cap in Seeding Sector
- Highly Competitive Product than any other existing products
- Less maintenance centred product
- Key Product to Study Market capacity.

What's in it for me:

- Experienced Super Fast R&D Feedback Ever,
- First ever consumer market product experience
- Large Scale Production Experience

Project Current Status: As a New Key product in the market "RoWeR MASS" serves as best in performance and quality with overwhelming response from targeted audience.

Tools Used:



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Place : Mechcreatio Industrial Solutions Pvt.Ltd
Lead Design Engineer – Chennai & Coimbatore



www.rowerindia.com

Below 10mm Seeding Machine (Hop Series)

Used For GMO Seeds which is small and high in price with it's precision Hop Series Seeders do perfect job in RoWeR s Premium Category

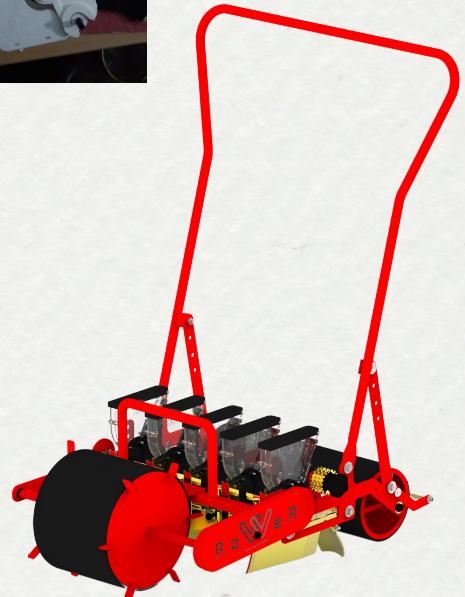


What's in it for company:

- High Precision Premium Seeder
- Effective Tooling Since it's Done In-house
- Robust Manufacturing Model
- Standardized inventory System

What's in it for me:

- Experience in Tooling
- Inventory Control Experience
- Product Standardization after Development



Project Current Status: **RoWeR Hop Series** is First product released in the market from rower since it's release it has received large positive feedback from across the world.

Tools Used:



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Place : Mechcreatio Industrial Solutions Pvt.Ltd
Lead Design Engineer – Chennai & Coimbatore

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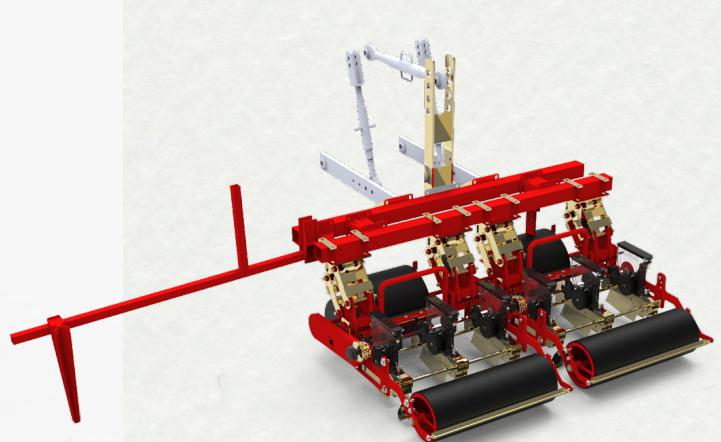
MASS – Tractor Mount Variant



MASS – Power Weeder Mount Variant



MiCrOn – Small Scale Variant



Hop Series – Tractor Mount

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Place : Mechcreatio Industrial Solutions Pvt.Ltd
Lead Design Engineer – Chennai & Coimbatore



As Lead Design Engineer in RoWeR India has given me clear exposures in following skill areas

- Sheet Metal Fabrication
- Plastic Injection Moulding
- Tooling for Both Plastic and Sheet Metal
- Large Pool of Vendors and Suppliers
- Years of Experience in 3rd party Quality Control
- Inventory management
- Make or Buy Decision
- SPM Analysis and Fabrication
- Full Scale Hydraulic System Design And Fabrication
- Process Standardization
- Product Management
- After Sales Management
- Customer Centric Designs
- Material Selection Knowledge
- Metal Finishing Techniques - Zinc, Hard Chrome, Nickel Platings
- Design For Laser Cutting
- Design For 3D Printing
- Design For Injection Moulding
- Design For Metal Forming and pressing
- Jigs and Fixtures Design and Fabrication.

Tools Used:



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