

Weeksmind engineers

context only also steps. The World Talkan Notice area (Here) - Ohir bullaring Friham Dansler, Weslay Street

Waday Life - Angeren La - of Long Jaumene' - Gang

Roar Politicus, Febry Mer-Electrical Engineers

hi see simple limited or right

Kelin Shory, suker-

Company try next at Common Plan Gacher, Dear serme Earle Danabeet Harden. Fearlerks

Shell Fabrication

Weight: 2.6 b

Moterial:

- Prepret carbon finer will be excomplione.
- Pre-impreditated resin does not dure at ambient temperatures.
- Hold resin at 3501- for 150 minutes to cure.
- Honovoor or nom pertween two pays of various offers a higher strength to weight rallogram sold carbonism notes a one

Method

- Male bing constructed not of CNC's MDF ocald class sections [1].
- Ping one of with resin and the resembed final single strategy into
- Two symmetrical length mighty mark but of mything material [3].
- Molds outled off of plug and boiled todether to form a complete mold Of.
- Cardon alvs and honeycomb aloved in mold, vacuumed pagged, and build in home built oven 4) made from therma foarr and real lawes.







Custom Mag ev Specifications:

- · Kes V Rep 78 F V
- Was Canesti 24.5.
- · No Peach 210 W
- Fig. 35 with challe N=2 hearty minn obschols.
- 3-ii it incete Denir balla it may bu vin;

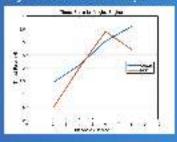
Magnetic Levitation

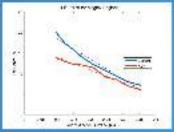
Lev tation & Propu sion

- The brain designed intelested that, and rested the sustain magice hoost engines. which by alekny pupel inegon.
- Permanent Vegre is are another this Lattern Analy (f) write increases the magnetic eld er ore sice.
- When Magley enginers son, the evaluating magnetic field induces of inpulsive on. li cair raja e medicio, vil
- When then the signest in characters will become things on the other earlier
 ground. The drig force mates the pod propting.
 The APP do not ingless continued to measure lift and production of the dagger.
- eignes Resilis to those in the grath teles.



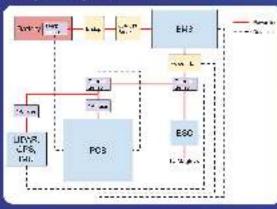






Power System

The power diagram Harantos how seen comparent on the podpresties power and is grounded:

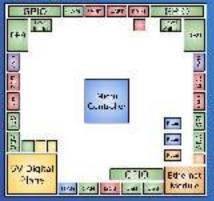


The Frenic Communicates

- . LiPo railhinni Palamerr halters (red); Locariles ewood
- BMS (Batte v Management System) to monitor pattery health.
- Mechanical emergency stop and electronically controlled bower. MCSFFT (vellow) as not we safety. mechanisms
- 69 and 59 back recreators to consent. nower in PCB and prisons
- · Sironil Lileake, and Insest purplet to profest electronics from over-current
- Senso cifol detecting current, battery. temperature pod position
- Universal ground plane (gray) to ground all electronics on poc-

PCB & Sensors

Custom devigned EC3 (Printed Challe Rappie) picelite agricin below.





Legend Blue - Computing Red - Sensor Ports Purple - Motor Ports Tellow - Power

Crange - Wireless Forts Green - Communitation To Is-



















Weightless. Wait less.

OVERVIEW

In 2013, Flori Musk proposed a bulonstic transportation system. The Hyperloop, a high speed levilating ordinary entitles through a low pressure vaccion to be no monitoral air drog and lifet on

To bring the Hypednop concept to line, Spaces has six heart to heart compet from where teams, control lover the world come to compete with their own Hypednop and designs.

This year, the learn is competing in the Levi at on Competition, in which the post must levitate and translate in a there and two kilapolicenia 150 till bean track. The tastest post wind.

THE SHELL

- 5) If and light-weight carbon liber serves as combined stord mal trains and sembyramic shell
- Honeycomb one offers higher strength to weight ratio.
 Than righton, amina esiatore.





ELECTRONIC CONTROLS UNDER THE SHELL



LIDAR Uses leser to detect nearby wall and engage emergency



IMU Gives ecceleration and recation of pad in all 3 axes



PCB
Primary control unit and sensor monitoring system



Battery <u>Lithium</u>-Polymer



ISMS
Monitors battery
& protects from
over-current and
over-discharge



GPS
Gives position of pad along I-beam in real time

Mechanical Englishers

An education of Statistics you does not be belong to be a considered on the statistic of th

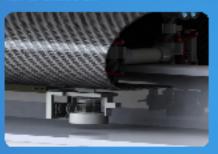
Clearica Engineers:

Rock Seed - Enangthi David ur - Xabotan, Hill King Sestambar - - Enan Yang Langtung bagawan

Carlotti Agai - Albeith - Lykin Wilman Dry o Bohadson Mark Mu - Ibah Land

MAGNETIC LEVITATION

- Four custom magical hazar engines generate lift, and produsion
- Serves control the fit angle of the magicy origines for arease control or forward and reverse socialization.



STABILITY

- Double wishoone vertical suspension stabilizes, help of, pitch, and roll
- Teat spring suspension stablizes yaw and lateral provement
- Falsote brake sorts safety bring the pacitoral stop in the case of failure





















With the control of the mann would libe to numbers areasing memors as were and appropriately for helping control of the project. Furtheyou to John Justice Peal Hoff, Hell Stating Tyler Sustee, in a Carryllance Vioga rands in atops if hosper Chier. Anny Michael Peach Marks, Fabric Rose, Chier Stating From Chier. The Purpose Trail y, Onto William Chiegan of Grove, Chiera Sear, and Ethic Chiega.