

Carbon Fiber Super Car - BEAST™

Kam Hosn

Co-Founder of Rezvani Motors (RAD)





History & Future

- Founded by Ferris Rezvani and Kam Hosn
- Ferris worked on Design and Development of European Supercar Vencer Sarthe.
- Initially introduced in Yahoo auto section, but then move to Yahoo home page for the whole day. (450 Millions Views per day)
- Received orders both in US and Internationally.
- Custom Chassis on Carbon Fiber.
- Family oriented SUV.
- Reduce the cost of production and mass produce via franchises.

YAHOO!

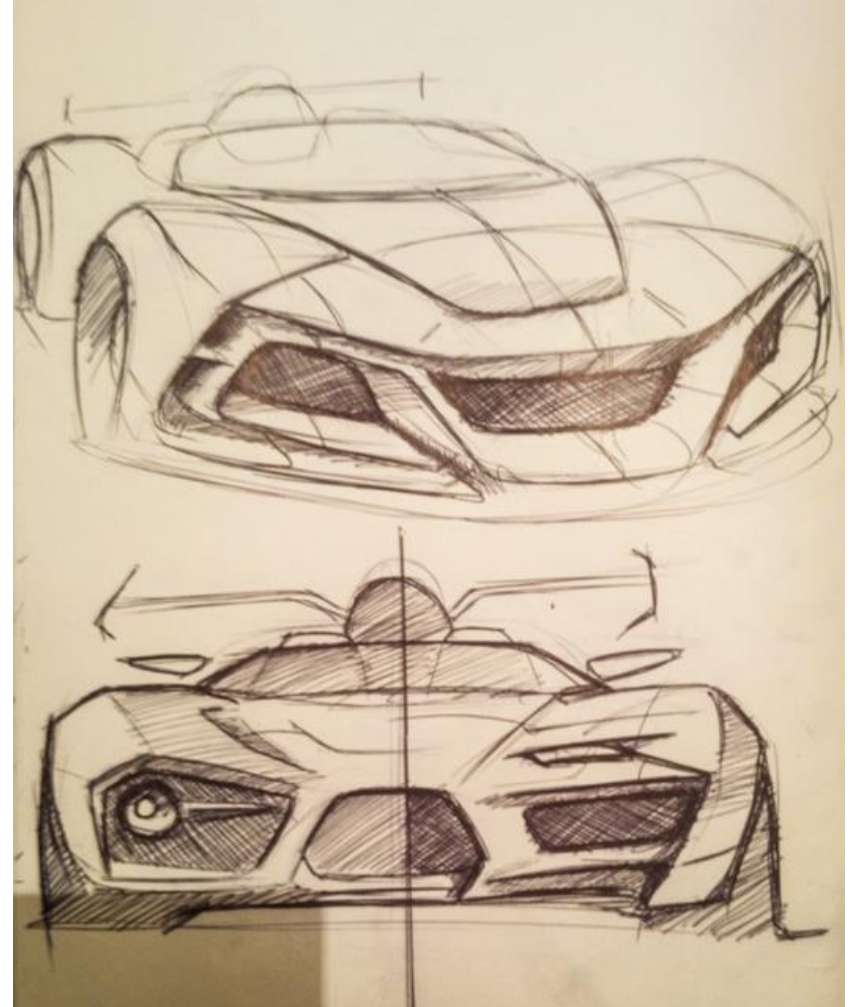
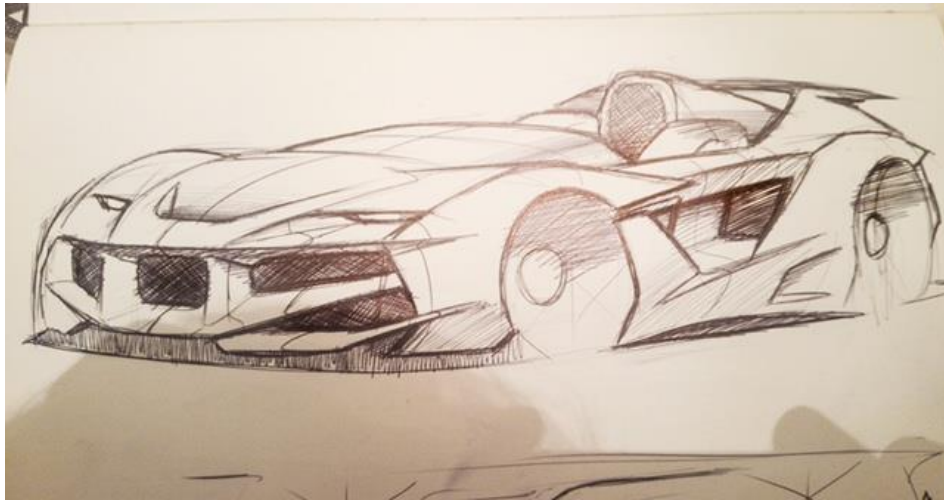


Design & Performance

- BEAST Designer, Samir Sadikhov, worked on concept cars for Ferrari and Lamborghini.
- Aerodynamics engineer, Tim Gibson, most recent project record breaking 424 MPH Challenger 2
- Completely designed on CAD and then moved into Production without going through any prototyping or clay molding.

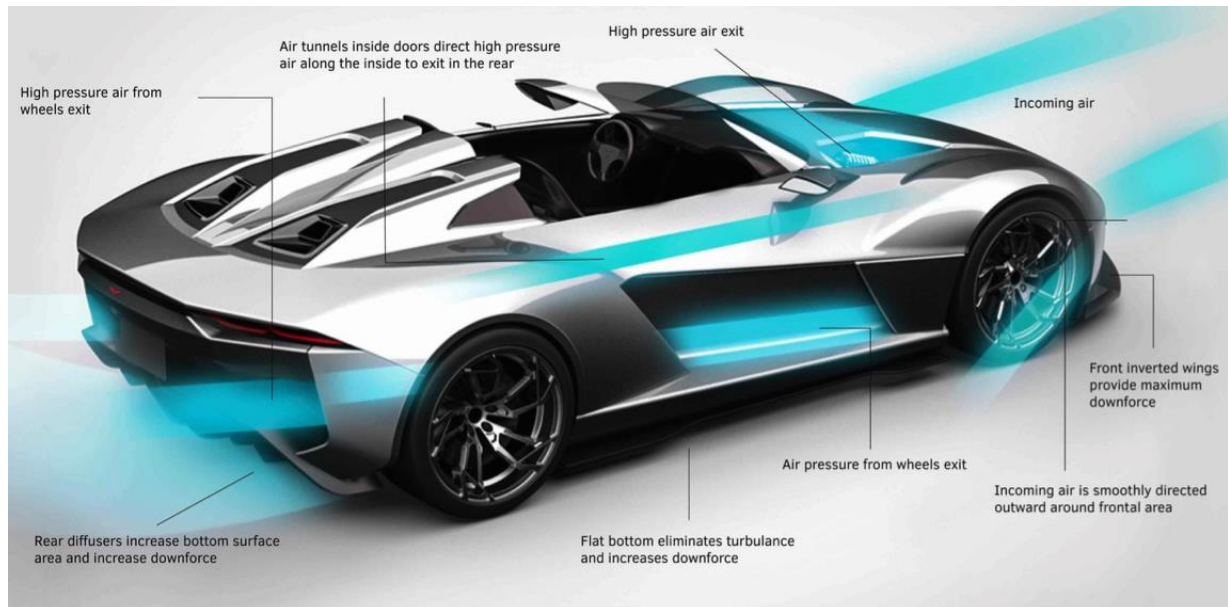


Design





Aerodynamics





Performance

- 0-60 MPH: 2.7 SECONDS
- Carbon Fiber Body & Carbon Steel (Chromoly Steel Tube) **CHASSIS**
- Honda Racing K24 DOHC 2.4L Rotrex™ Supercharged and Intercooled
- 500 Horsepower @ 6350 RPM
- 427 ft-lbs Torque @ 5950 RPM
- 6 Speed Close Ratio Manual (with Limited Slip Differential)
- Weight: 1550 lbs



Carbon Fiber 101

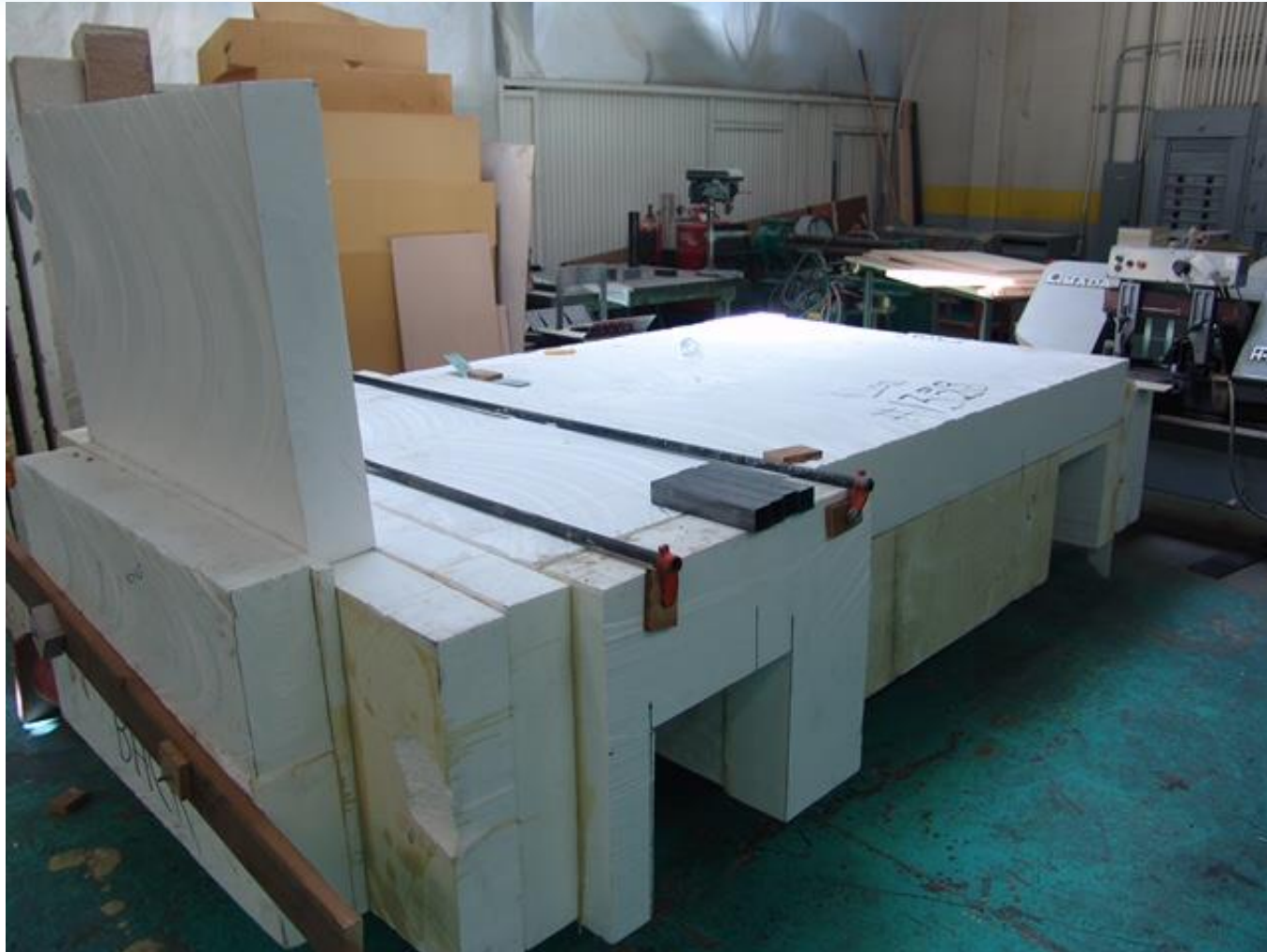
- Resin
 1. Polyester: Least Expensive - Fiber Glass
 2. Vinyl Ester: Resistant to chemical
 3. Epoxy: Most Expensive - Sensitive to Environment
- Types of Preparation
 1. Wet Layout: Use Brush to put resin. \$
 2. Vacuum Bag: Put the resin through all the fibers and take the extra out. \$\$
 3. Prepreg: Aerospace quality - Resin already in CF in frozen form - Autoclave. \$\$\$



Body Construction

- Feed CAD data to CNC machine
 1. Cut foam
 2. Apply liquid Fiber Glass
 3. Run CNN machine again for another cut
 4. Check out Master Plug for any defect
- Construction of Mold
 1. Use Vinyl Ester with High Temp Tooling Resin
 2. Plastic Sheet and Thirty layers of Carbon Fiber
 3. Use Steel structure and bracing to maintain structure integrity of Mold
 4. Each mold will be good for around 150 parts.
- Provide extra support with Honeycomb
 1. Front Hood
 2. Rear Engine cover

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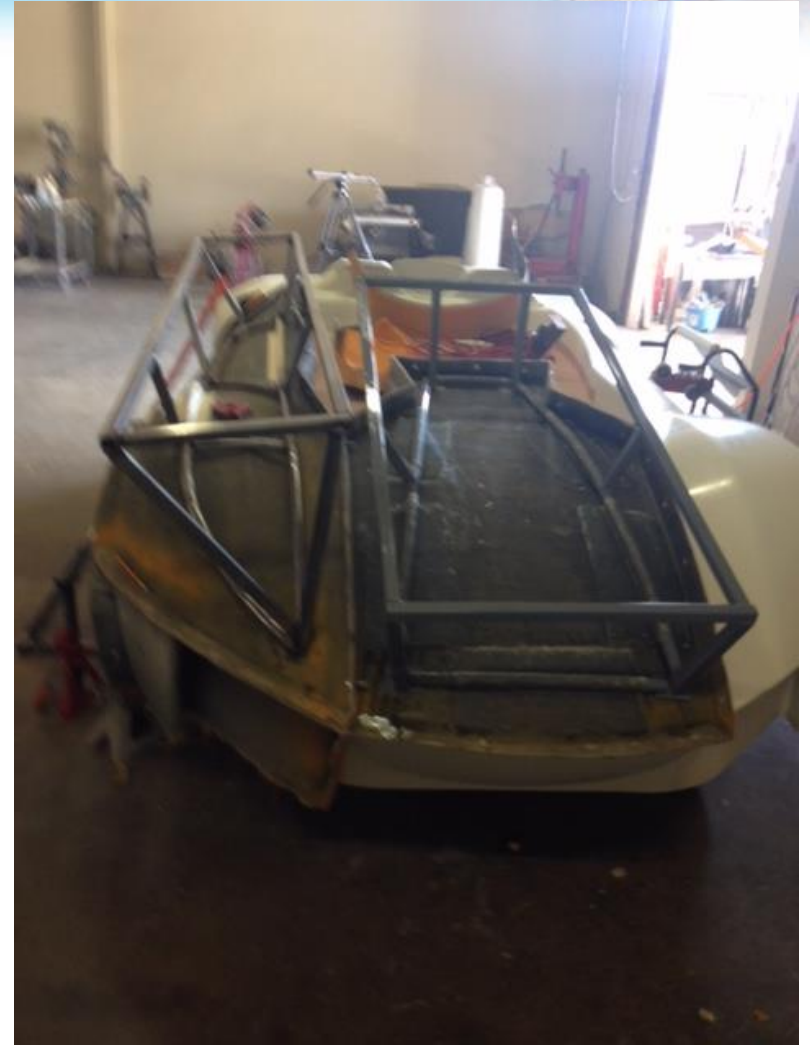


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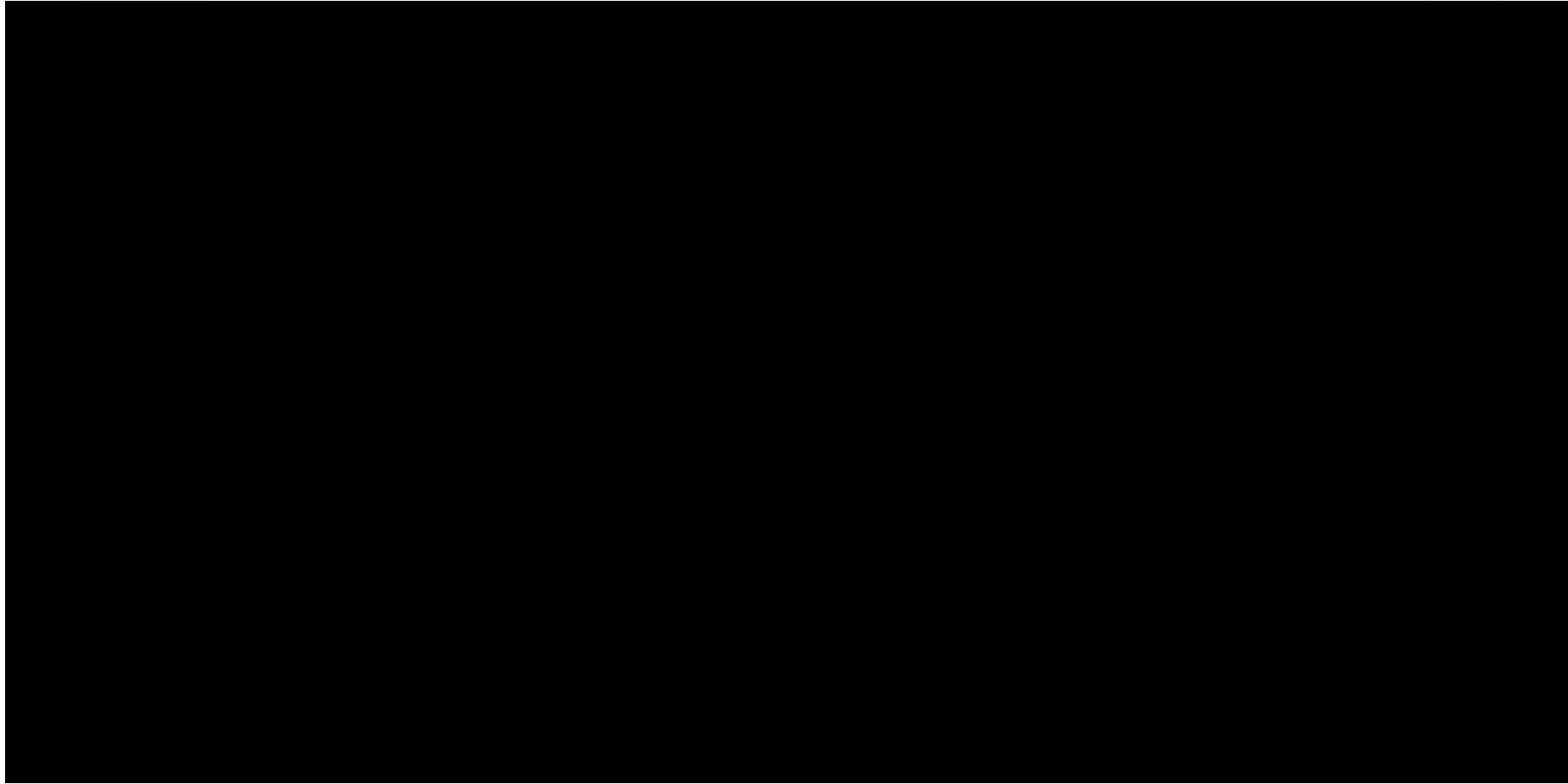
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<https://www.youtube.com/watch?v=Qc2iLI2UO5A>





Price & Competition

- At \$165k BEAST is by far the least expensive Carbon-Fiber Supercar
- Koenigsegg \$1.1 Million
- Ferrari LaFerrari \$1.3 Million
- Bugatti \$2.2 Million
- Pagani \$1.6 Million
- McLaren P1 \$1.0 Million

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