SUKHRAJ HOTHI

Mechanical ENG.

13531 158 Ave Edmonton AB
E: sukh_97@hotmail.com
C: (780)-850-6758

Qualifications

- Proficient with SolidWorks, Rhinoceros **surface modelling**, **rendering** with Keyshot and post processing with Photoshop
- Extensive experience with **rapid prototyping** through SLA, SLS, and FDM 3D printing for professional presentation
- Project Management skills developed through co-ordinating product manufacturing trials in both mould injection and decorative finishing
- Experienced with **material testing** procedures for various interior automotive parts that would need to be tested for compression, adhesive strength, tensile strength, impact testing, and marring

Work Experience

Mitchell Plastics *Decorative ENG. Intern Jan-Apr '16*

- Worked within R&D department on conceptual interior products and parts for **Toyota, FCA, and Ford**
- Conceptualized and created new interior decorative designs through the use of industry production processes (eg. painting, hydrographic, wrapping, and laser etching)
- Knowledgeable with **Injection Moulding** and basic **Tool Design from** work with prototype plastic part design for R&D projects, for example the Dodge Ram tambour door project done during my last term

Current Projects

- Member of mechanical engineering team helping start up the Waterloo Autonomous Sailboat team, our objective is to build a autonomous sailboat which will compete against other university teams across Canada and America
- Prototyping a silicone sport wristband for the Apple watch which will meet Apple's design specifications for third party wristbands
- Working under the supervision of professor Behrad Khamsee on a new electromagnetic spherical wheel design which uses maglev propulsion to drive forward levitating wheels

Previous Projects

- Have run my own 3D Print service using my own FDM Printer completing orders for more than 70 clients, made a **return on investment** and now expanded to a new **Form 2 SLA Printer**
- Designed and built a **250cc Dune Buggy** out of a steel chassis and developed skills in metal work, welding, automobile painting, and **high strength 3D Printing**
- Designed and built a all electric Segway made of a aluminum base chassis and powered by twin 12V lead batteries powering 300 Watt Scooter Electric Motors balanced by a **6 axis Analog Accelerometer Arduino Combo**