**Mustafa Parikh**

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**OBJECTIVE**

To apply knowledge and experience in plastics to a materials research position with an innovative firm

**EDUCATION**

***Bachelor of Science, Plastics Engineering:* May 2015**

University of Massachusetts, Lowell, MA (UMass Lowell); GPA: 3.2

**TECHNICAL / LABORATORY SKILLS**

* ***Processing*** – Injection Molding (Roboshot, Argurg), Blow Molding (Rocheleau), Single Screw Extrusion (Davis Standard, Welex, and Berlyn), Rotational Molding (Wensley), Thermoform Molding (Maac), Vertical Rubber Molding (Freudenberg), Twin Screw Compounding, Blown Film Extrusion (Battenfeld Gloucester)
* ***Testing*** - Tensile Properties (Instron), Flexural Strength, Izod Impact, Shore Durometer Hardness, Rockwell Hardness, Melt Flow Rate, Coefficient of Friction, Charpy and Izod Impact, TMA, TGA, DSC, FTIR, Capillary Rheometer, Heat Press, Vacuum Press, Glass Adhesion, Seam Tape (apparel) application
* ***Software*** – Solidworks, Moldflow, MS Word, MS Excel, MS PowerPoint

**RELEVANT ACADEMIC PROJECTS**

*Electrical Connector Moldflow Evaluation* (Fall 2013)

* Conducted multiple assessments of an existing part and analyzed test results using Moldflow software
* Provided multiple design and process improvements

*Preparation of Environmentally Responsive Hydrogel* (Fall 2011 – Spring 2012)

* Prepared dye-filled hydrogels that change color and absorb acidic waste excreted by living cells in a given medium to extend cell life

*Screen Window Frame Profile Extrusion Die Design* (Fall 2011)

* Applied knowledge of materials, the extrusion process, and SolidWorks to design and prototype an extruder profile die

**ENGINEERING EXPERIENCE**

**UMass Lowell Plastics Engineering Department, Lowell, MA** (Sept. – Dec. 2013)

*Polymer Science Lab Teaching Assistant*

* Successfully aided undergraduate students in various polymer experiments
* Effectively managed lab areas to ensure all supplies were available

**ANTEC, Orlando, FL** (May 2013)

*Student Poster Presenter, 2nd Place Qualifier*

* Conducted research on the preparation of environmentally responsive hydrogels
* Presented findings alongside peers to the Plastics Industry Council

**Innovative Plastics, Southborough, MA** (Jan. – May 2012)

*Assistant Project Engineer Co-op*

* Effectively solved design complications and material processing problems
* Served as primary liaison between engineering and technician teams

**ACTIVITIES**

SPE Student Chapter Member

Intramural Soccer, UMass Lowell