**Request Form for Senior Design Project Proposals  
Kamal Sarkar  
June 10, 2015  
Rev B**

* **Advisors:**

**Dr. Jones, Mrs. Ramirez**

* **Project Title:**

**Design of Extruder for 3-D Printer Filament**

* **Is the project CONFIDENTIAL?**

**No**

* **Pl. identify critical Design Component(s)?**

**Extruder, Water bath, Collector**

* **Expertize needed to address the design component (pl. circle ALL that apply)**

**Design, Materials, Heat Transfer, Systems**

* **Special software expertise needed?**

**Solidworks, Labview or Arduino programming**

**Pl. specify if there’s anything else? Thanks.**

* **Is Machine shop expertize needed?**

**Some (Can be easily learned from Hector)**

* **Pl. mention MINIMUM Measurable Outcome(s):**

**Extruder design, bill of materials, working extruder**

* **Is there any Key Performance Indicator (KPI) you plan to use to measure progress towards Measurable Outcome?**

**Senior Design I: Complete design of extruder system and complete bill of materials needed to construct and purchase**

**Senior Design II: Build, instrument, and test extruder; results verification, use filament in 3D printer**

**If you’ve a write-up you want to add, pl. do so either as an attachment or type/write below & over. Thanks.**