

# Harpreet Multani

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## Technical Skills

- Autodesk AutoCAD/Inventor
- MS Excel, Word, PowerPoint
- MATLAB Programming
- C/C++ Programming
- HTML
- Arduino
- SolidWorks
- COMSOL Multiphysics
  - Solid Mechanics
  - Fluid Dynamics
- Sales

## Experience

### Tutoring (2012-Current)

Various unpaid tutoring positions at Elementary Schools, Middle Schools, High Schools, and Colleges. Helping students learn skills related to STEM courses, such as MATLAB programming, COMSOL Multiphysics, mathematics, chemistry, and biology.

### Sales Experience (2015 – Current)

I have worked in many sales positions at companies like Sears and Lowes, where I have developed communication skills with both customers and coworkers. This has enabled me to gain insight in customer needs and applying my knowledge to give them the correct product. This has extended into my tutoring experience, since I am able to teach my coworkers about products and how they can sell the correct product for each individual customer's needs.

### Arduino Project (2018)

Using an Arduino, my team developed a heat sensor that was characterized to be used with a kitchen range to prevent burns.

### Solid Mechanics Project (2019)

I developed a spine model with COMSOL Multiphysics that utilized a force applied to one side of the model to mimic and display results of a whiplash-type injury.

### Fluid Dynamics Project (2020)

I developed a capillary network model with COMSOL Multiphysics that utilized both fluid flow and concentration gradients to determine the fluid velocity and pressure of varying capillary network sizes and the absorbance of a chemotherapeutic drug into a tumor.

## Education

Currently Attending – University of California, Riverside  
Bachelor's Degree in Bioengineering