

Argudit Chauhan

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Education

Institution: University of Colorado, Boulder, CO

Major: B.S. in Biomedical Engineering, Pre – Medical Track with Bioinstrumentation Emphasis

Minor: Applied Mathematics, Probability and Statistics Emphasis

Cumulative GPA: 4.000

Credit Hours: 66

Expected Graduation: May 2024

Technical Experience

Computer Experience: Java, MATLAB, Microsoft Excel, Microsoft VBA (Visual Basic for Applications), LaTeX, SolidWorks (CSWA Certified)

Machine Experience: 3D Printing (MarkForged, Lulzbot, and SLA), Laser Cutting

Project Experience

Computer-Aided Design and Fabrication Final Project: Modification of a Blender

- Reverse engineered the mechanical structure of a blender and developed a model on SolidWorks.
- Measured the dimensions of the blender to create perspective drawings of the product.
- Brainstormed possible modifications of the blender to improve the efficiency and applicability of the product.
- Modifications included the addition of a juice press, a redesigned blade, and adaptation of the materials.
- Applied simulations to the model such as a force and pressure test to find values of factor of safety, displacement, and von Mises stress.

Research Experience and Publication(s)

Research:

University of Colorado Medical Campus – Summer 2019

- As a research assistant in Michael J. Weyant's Cardiothoracic Laboratory, I was tasked with performing basic laboratory procedures, organizing lab equipment, and managing protocols.

Publication(s):

- Global Retinoblastoma Study Group, Fabian ID, Abdallah E, **Argudit Chauhan** et al. Global Retinoblastoma Presentation and Analysis by National Income Level. *JAMA Oncol.* 2020;6(5):685-695.
doi:10.1001/jamaoncol.2019.6716

Volunteer Experience

Project C.U.R.E

- Project C.U.R.E is a nonprofit organization that donates unused medical equipment to international hospitals in need. I was tasked with sorting, packing, and troubleshooting medical equipment.

Extracurriculars

Friends of Doctors Without Borders: A student chapter of Doctors Without Borders, that fundraises and volunteers.

Biomedical Engineering Society (BMES): A student organization that volunteers and participates in local research.