Meharpreet Singh Nanda

+1 (587) 974-1567 | meharpre@ualberta.ca

GitHub: https://github.com/MSNanda515

UNIVERSITY OF ALBERTA – ACADEMIC & CO-OP STATUS

Computer Engineering, BSc Co-op Class of 2024 Cumulative Grade Point Average 3.8/4.0

TECHNICAL SKILLS

Languages: C++ (Expert), MATLAB (Proficient), Python (Proficient)
Prior Experience: VHDL, Flutter, C, Java, HTML, CSS, JavaScript, SQL, Docker, Kubernetes, React, Deep Learning, Git, Linux

WORK & VOLUNTEER EXPERIENCE

- **Student Team for Alberta Rocketry Research (STARR)** **Edmonton, AB**
  Deputy Avionics Team Lead, Volunteer *May 2020 – Present*
  - Worked on the design of the telemetry, ignition, and the recovery system for the rocket
  - Assisted in project management and drafting project reports for competitions
- **UAlberta Formula Racing EV Team** **Edmonton, AB**
  Controls Team Member, Volunteer *January 2021 – Present*
  - Designed the prototype of the embedded system for brakes to be used in the vehicle
- **Costco Wholesale** **Edmonton, AB**
  Electronics Sales Associate, Part-Time *June 2020 – Jan 2021*
  - Assisted over 50 members daily with their electronics purchase
- **'The Semite' Newsletter, St. Joseph's College** **Nainital, India**
  Editor, Volunteer *April 2015 – March 2017*
  - Supervised the editorial team, edited the biweekly newsletter, and interviewed alumni

PROJECTS

- **MedAssist App**, HackEd 2021 (Collaborated with a team of 5)
  - I designed the UI/UX interface and developed the login, signup and home page for the Health app using flutter and implemented its interface with Firebase Realtime database and google maps API
- **EPS Simulator**, AlbertaSat
  - I developed an asynchronous multithreaded electronic power system simulator in C using POSIX pthread API and other IPC mechanisms
- **Command Handler**, AlbertaSat
  - I developed the interrupt driven command handler for the HPS on Intel cyclone V SoC to enable communication between the OBC and the imaging payload system on the CubeSat
- **Navigation System** (group of 2)
  - I developed the path finding component of the server using Dijkstra's algorithm and designed the client program to communicate with the server over TCP using sockets in C++

CERTIFICATIONS

- Operating System and You: Becoming a Power User, Google (Coursera) – August 2020
- The Bits and Bytes of Computer Networking, Google (Coursera) – June 2020
- Technical Support Fundamentals, Google (Coursera) – May 2020

AWARDS

- Second place at Junior Engineering Competition UAlberta – 2020
- University of Alberta Undergraduate Leadership Award – 2020
- Gold Medal in National Space Science Olympiad (NSSO) – 2017