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Prasann Pandya
Biomedical & Electrical Engineering Student

Strong interest in making a positive impact in healthcare through technology

Education

09/2013 - Present

Bachelor of Engineering (Biomedical & Electrical)
McMaster University

Courses
- Biomedical Instrumentation
- Biological Systems Modelling
- Digital Signal Processing
- Data Structures & Algorithms
- Anatomy & Physiology
- Biomechanics

Relevant Experience

06/2016 - Present   Toronto, Canada

Research Engineer
St. Michaels Hospital

Centre for Surgical Innovation & Safety

Tasks/Achievements
- Assisted in developing sensors for 'Surgical Blackbox System' to capture data in the OR
- Tested and decided other technologies that can be used to capture data during Surgery
- Collaborated with Surgeons, Medical Professionals, Manager and IT for decision making
- Presented my research project among 100 other summer students

09/2014 - 04/2016   Hamilton, Canada

Student Success Leader
McMaster University

Data Analysis Support Hub (DASH)

Tasks/Achievements
- Assisted with developing of 'Data Analysis Support Hub Program' for students requiring help with statistical analysis software
- Actively engaged in Leadership Development workshops with other student leaders

05/2015 - 08/2015   Toronto, Canada

IT Systems Assistant
Ontario Public Service, Grants Ontario

Tasks/Achievements
- Provided technical support to around 20 clients each day and helped them with resolving problems

05/2014 - 08/2014

Sales Representative
ADT Home Security Systems

Skills & Competences

Problem Solving	Critical Thinking
Leadership	Communication
Data Analysis	Signal Processing
Programming	Microcontrollers
Circuit Design	

Projects

Voice Boost
- Created a prototype of 'Real-Time Voice Signal Processing Android App' for patients suffering from voice disorders
- Collaborated with a Speech Pathologist to understand the needs of those patients and currently working on developing it further

The 6IX (Toronto) Park
- Developed an easy to use parking management app to replace parking meters in the future working in a team of 5
- Won 2nd overall prize at 'Cisco Devnet Hackathon Toronto'

Compete
- "Real-Time Exercise Competition App" prototype targeted for friends that are unable to workout together
- Developed algorithms to automatically detect exercises using accelerometer and gyroscope sensors

Life Alert System
- Simple wifi system to alert close relatives with push of a button

Achievements

Best use of technology to solve a Healthcare Challenge
Hacking Health Hamilton Hackthon 2016

Second Overall Prize (Won $2000 USD)
Cisco Devnet Toronto Hackthon 2016

Student Success Leader Certificate of Achievement
McMaster University (2015 & 2016)

Hamilton District Cricket League Champion (2014)
Won summer cricket championship with Hamilton Cricket Club

Interests

HealthcareTech | Wearables | Medical Devices | Hackathons | Cricket | Badminton