Dar Mehta

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1A Mechatronics Engineering, University of Waterloo

HARDWARE & DESIGN SKILLSET

- PCB Design, Assembly & Troubleshooting
- Upverter PCB Cad, Solidworks, Autocad
- GD&T, ANSI & ISO Design Standards
- Arduino, PIC Microcontroller, ATtiny85
- Circuit Schematic Design, Analysis & Troubleshooting
- Sensor Manipulation & Signal Processing (e.g. optical, encoders, Myo EMG)

SOFTWARE SKILLSET

- Experienced: Java, C++, Android, Object-Oriented Programming
- Familiar: Arduino, HTML, CSS
- Basic: Assembly, PLCs, Unix Terminal, Git, FTP
- Eclipse, Netbeans, Android Studio
- Introductory: Python, Javascript

Experience

Co-Founder Repleno Labs, Mississauga ON   2014 — Present

- Founded this startup with two peers to develop an innovative mobile charger to increase battery longevity
- Spearheaded the research, design and development of the electronics including PCB design and assembly
- Developed a working prototype for crowdfunding marketing purposes

Team Captain Absolute FIRST Robotics, Mississauga, ON   2013 — 2015

- Managed a cross-functional team consisting of various subdivisions including software, mechanical and electrical
- Led the design and manufacturing of the robot within strict timelines
- Effectively communicated the feasibility of ideas by conducting rapid prototyping and testing
- Strengthened team finances by generating over $3000 in funding
- Boosted team membership by 185% from previous year by strategically marketing the team throughout the school

Mechanical & Electrical Team Member Formula Hybrid, Waterloo, ON   2015 — Present

- Managed the design (Solidworks) and construction of the dynamometer jig to collect data for electric brushless motors

Projects

Receipt Digitizer Hack The North, Waterloo, ON   September 2015

- Successfully implemented Google's Tesseract Optical Character Recognition library to scan receipts
- Built an Android application to extract store name, products bought and their cost and the total cost from a receipt image

Personal Website Mississauga, ON   August 2015

- Designed and developed a responsive personal website using HTML5/CSS3 and Bootstrap
- Integrated a WordPress blog

Cycle (Top 5 Overall) BattleHack, Mississauga, ON   July 2015

- Designed and built an NFC (Near Field Communications)-enabled bike lock
- Developed an Android application to allow bike owners to rent their bike, charging at an hourly rate over a secure PayPal connection
- Successfully implemented Android's NFC API allowing customers to unlock NFC-enabled bike lock with their phone

Education

Candidate for Bachelor of Applied Science, Mechatronics Engineering - University of Waterloo

- President's Scholarship of Distinction   2015
- Schulich Leader Scholarship Nominee   2015
- DECA International Competition 8th Place Overall in Business Law & Ethics   2014