Ravi Amin B.Eng. EE

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☁ https://Ravi-Amin.com

SUMMARY

AI ChatGPT, Web3 Crypto Developer, Electrical Engineer, Programmer, Internet Marketer, Teacher and Volleyball Player. Created hardware-software automation systems for the biomedical, aerospace, automotive, and telecommunication industries.

Success leaves clues:
· Saved Medtronic in an emergency, creating a heart pacemaker screening system
· Technical head engineer of an entire aerospace department while in my twenties
· Granted TN to H1-B genius VISA, proven most qualified in the US for my position
· 1st place prizes in App making hackathon competitions
· Owned a volleyball travel adventure group of 6000+ members hosting 500+ events
· Owner of multiple web businesses running independently of my time
· A+ Thesis published hardcover: Electrocardiogram Adaptive Prognosis
· Law and Ethics exams completed in 1998. The P.Eng. was not valued in the US
· Raised and educated Canadian; US & Canadian experience; Indian Hindu ancestry

EXPERIENCE

Owner
FANpay.com   **May 2015 -undefined, Toronto, ON**
· Startup e-businesses: Web3 Crypto Websites, IPFS (Interplanetary File System), NFT, Lifetime Crypto Domains, $100 Trillion Token DAO to replace governments and banks, Solana Shopping Cart, Drag and Drop Web2 App Maker, Appointment Booking Calendar, Shopping Carts, Virtual Business Cards, CRM, 3D VR/AR, Real Estate Marketing Automation
· Vacation.FYI: ChatGPT 3.5 AI-powered Travel Agent Chatbot service with flight, car, hotel, and vacation booking sites
· TorontoSinglesDating.com: with 6000+ members, organizing 500+ events from volleyball to group vacations. Closed 2016
· TradingPAY.com: Stock Futures Trading + Video Training, Udemy Course Instructor Closed 2015
· Won many Hackathons, helped run events, conferences and a science fair.
· Webmaster for Professional Engineers Ontario PEO, P.Eng. Etobicoke Chapter, Implemented a document submission site for 12 high schools.

Senior System Design Engineer
Honeywell Space and Aviation   **May 2009 - April 2010, Toronto, ON**
· Designed electronics and software for the largest airplanes in the world: Airbus A380, A350
· Created a program to remotely control a jet engine test facility in Mexico using PXI hardware from Mississauga, Canada
· Redesigned a jet engine starter/generator mode controller, Cadence Cad update of power distribution panels & safety breakers

Senior Test Engineer -Developer
Medtronic Inc.   **2002-2003, Tempe, AZ**
· Solved an intermittent heart pacemaker failing issue by creating a program that continuously monitors 16 heart pacemaker devices' vital signs while cycling through a temperature profile.
· Meetings in Minneapolis, programmed UI controlling DAQ hardware in Arizona and installed it into production in Switzerland with remote monitoring code to make real-time analysis possible from all locations. All in under a month.
· Awarded a $1500 "Performance Program Quality Stand Award"

Head Engineer of 50+ National Instruments Full Developer Suite Aerospace Engineers
Honeywell Inc., Business Commuter Avionic Systems   **1998-2002, Phoenix, AZ**
· Created, trained, and convinced the aerospace departments to adapt a new graphical data-driven programming language "LabVIEW" and National Instruments hardware platform to replace all the old ways they were qualifying electronic systems in the latest business jets.
· Pioneered a new test system strategy, which combined several platforms and integrated the LabVIEW - SSTE (Single Sequence Test Executive) into the TestStand - MSTE (Multi Sequence Test Executive) for upgrading all legacy systems. MSTE allowed testing 20 UUT (unit under test) modules simultaneously, while interfacing with the environmental chamber for QUAL, ESS, HASS and HALT testing. A list of tests is created for each modular instrument in the cockpit of the airplane, using just a LabVIEW test sequencer. To test the central controller of the entire cockpit, we used TestStand's ability to run multiple test sequences using multi-threading and multiple processors.

· Programmed the initial baseline version for each department's system, setting them all up with all the code resources they need to complete their part before bringing all the departments together for a full system test.
· Wrote the resource management program that managed the measurement instruments and stimulus allocation among multiple simultaneous tests, using a dynamic capture and releasing of semaphore permissions.
· Other projects: Air Transport System's satellite tracking systems that made in-flight Internet service possible.

Test System Design Engineer
Microsys Technologies Inc.   **1994-1998, Toronto, Ontario**
· This innovative four-person start-up company hired me twice as a summer student and then full-time after I graduated. We worked independently implementing National Instruments hardware-software automation projects.
· Projects: Omron R&D Automotive Relay Switch Tester, AMP of Canada, CCTS (Current Cycling Test System), AT&T, Submarine Systems COTDR (Coherent Optical Time Domain Reflectometer), Ericsson, Cellular Phone Test System, TRW Seatbelt Retention System, IMAQ Vision System, FAG Ball Bearing System, Atoma Airbag System, Anritsu MP1550, PDH/SDH Analyzers drivers, Remote Fibre Optic Communication

EDUCATION

Bachelors of Engineering B.Eng. Electrical
Minor in Controls Systems and Communication Systems · Toronto, ON · 1996

COURSEWORK

National Instrument: NIWeek
Austin, TX · 1999, 2000, 2002, 2004 · Advance LabVIEW, VXI, DAQ, TestStand,

Honeywell
Phoenix, AZ · 1998-2002 · Six Sigma, Private Pilot School, Human Centered System Design, Best Practices , Windows NT,

Medtronic
Tempe, AZ · 2002-2003 · Cardiac Rhythm Management, Test Stand NGT System, Statistic, Design of Experiments

Internet Marketing, Mobile Apps, WordPress
Online Universities · 2004-2020 · Udemy, Day Trading Courses, MLM Companies, Professional Coaches

INVOLVEMENT

Hackathons
· Hackathons: Android & web App Developer & WordPress websites marketing
· 2014 Dementia Hack, 1st Place Grand Prize: $58,000 Trip to the UK
· 2013 Hacking Health – Brain fitness App, correlating the body-mind connection
· 2015 Sports Hack, - YogaChi App, with the EEG Muse brainwave headband
· 2015 Hacking Health - made a WordPress site & doctor appointment voice recording app.
· 2015 Intel Hack - Edison controlled GPS and vibration navigation for the visually impaired
· 2015 Sports Hack, - Grouper App, was called back to work on Gray Cup project
· 2015 Fashion Hack - Offered workspace and mentoring to bring high tech T-Shirt and Hat to market
· 2016 Cross Borders, - 1st Place for Canada's side of the border, reverse image-searching App
· 2016 Flybits, 1st Place $5000 - Prioritime App, Using the Flybits GEO fencing triggers
· 2017 Legal Hack – 1st Place App, Traversing through the legal systems decision tree of options

SKILLS

National Instrument: NIWeek, Adv LabVIEW, TestStand, NGT System, Ordered 50 Full Developer Suites & Racks of VXI, PXI, DAQ

Web Apps: AI ChatGPT API, HTML, CSS, JavaScript, PHP, MySQL, WordPress, Bootstrap, Github, Constant Contact eMail Marketing Services Provider, Virtual Conference Organizer, Google Services Provider

Business: Some MBA, Grant Applications, Stock Trading, Networking, List Building, CRM, ERP, Sales ...

Engineering Languages: LabVIEW, TestStand, Matlab, Pascal, C, Basic, Pspice, Lisp, Prolog, HP48G Calculator, Motorola HC6811, 6809, DSP 56002, MS Visual SourceSafe, Documentum, Cadence Cad,

Engineering Fields: Digital Controls Systems, Communication Systems, Power Systems, Systems Modeling, Artificial Intelligence, Statistics, Six Sigma, Engineering Tort Law

Blockchain: Crypto Domains, Remix Ethereum Solidity, Visual Studio Code, Web3, IPFS, JavaScript, React, Python, Truffle, Hardhat, OpenZeppelin, DApp, NFT, DAO, Solana Shopping Cart, MetaMask, Github, Command line Terminal, Filecoin