

Mit S. Patel



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EDUCATION

Auburn University – Auburn, Alabama

Pursuing a Bachelor of Mechanical Engineering &
Bachelor's of Business Administration in Accounting
Current Status: Junior, GPA 3.71

Hoover High School – Hoover, Alabama

Valedictorian, GPA 4.4/4.0
Obtained International Baccalaureate Certificate

PROJECTS

- **P2P and Merchant Payment system**
 - Used Xamarin.Forms to simultaneously develop an iOS and Android app that allows users to send cryptocurrency to friends and family
 - Created the Backend Server using Python and Flask framework
 - Consumed Plaid and Stripe API's to authenticate user bank accounts and charge them
 - Implemented Infura Web3 injection to interface with ERC20 Smart Contract
 - Implemented Very Good Security API so all data stored in databases is tokenized and non-decryptable
- **Cryptocurrency Triple Arbitrage Trading Bot**
 - Used Python to create a program that would scrape the order books for various currency trading pairs to find an arbitrage opportunity. If an opportunity appeared the bot would commit the trade and send a summary email to my inbox.
- **Light Switch Retrofit (Intellisolutions)**
 - Worked with two friends to create a light switch retrofit that enabled automation without requiring any wiring.
 - Created the device by using a Raspberry Pi and an Arduino in which the Pi served as a hub and processed the commands received from the app and relayed them to the corresponding Arduino. The Arduino controlled the mechanism that allowed for the light switch to be flipped. The Pi could accept commands over WiFi so it was not limited to a particular range.
 - Used Solidworks to model various designs and the final design was chosen after I researched all the patents that would be related to our product so that we would not be infringing on any patents.
- **Portable Wireless Solar Charger**
 - Created a portable battery that had the capability of charging other devices wirelessly. The battery was also equipped with a solar panel so that the battery could be charged without needing a Micro USB cable.
- **I-Beam Structural Analysis**
 - Used MATLAB to create a program that would allow the user to select different types of beams, loads and load locations and output a graph that should showcase the most likely points of failure.
- **SSSS Mandal Music Streaming Application**
 - Created a music streaming application for my religious group because prior to the app the only way music could be obtained from the creators in India was CDs.

SKILLS

- Full Stack Development
 - Mobile Development – C#, Xamarin
 - Backend Development – **Python**, Flask, RESTful API development
 - Frontend Development – HTML, Jinja2 Templating
- Software & Hardware Packages: **Solidworks**, Adobe Photoshop, Cyberlink Powerdirector, Intuit QuickBooks, LaTeX, Microsoft Excel, Microsoft Word, Arduino Uno, and **Raspberry Pi 3**
- Other programming languages: Java, **MATLAB**, LabVIEW
- Fluent in **Hindi, Gujarati, Spanish**
- Trained to the level of NIMS apprentice machinist in layout, hand tools, manual mills, drills and lathes.

EXPERIENCE

Panasonic Energy Corporation of America - Mechanical Engineering Intern

Full Time (August 2018 – December 2018)

- Created CAD drawings and parts
- Responsible for machining new and replacement parts as well as guarding for packaging machines
- Responsible for automating packaging and quality control processes
- Refurbished an 8-year-old tray-former to work for a variety of box forming needs.

Jetpep – Pelham, Summerdale, Bayminette, Monroeville, Alabama

Bookkeeper/Tech Support – Part-time (October 2013-Present)

- Manage the books for multiple gas stations and check for discrepancies in inventory
- Be able to help configure and troubleshoot cash registers
- Serve as the primary person to contact in case of technological failures
- Created a program that can take data from cash registers and other private databases to compile an end of day report that populates Excel files to create a daily ledger of cash flow and send the reports to the respective managers and owners of the c-stores
- Setup service that allows C-store managers to actively track transactions and match them with their camera feed to prevent theft and catch discrepancies in end of day reports

Web Designer/Freelance Programmer – Hoover, Alabama

Self-Employed – (August 2015 - May 2017)

- Design websites for people as secondary source of income
- Created an Auto grade program that grades Solidworks part files using automation software, WinAutomation
- Launched an ecommerce site called TradeLoft (Founder and Co-Owner)

ACHIEVEMENTS AND INVOLVEMENTS

- Dean's List (Fall 2017)
- UAB Materials Science Camp (Summer 2016)
 - Spent 1 week with UAB's materials science faculty learning about different materials and their application.
 - Learned how to use molds to create a product
 - Created and launched mini rockets after designing them in CREO and 3-D Printing the parts.
 - Ran our own analysis on drag and stress on the rocket to identify the ideal design to maximize the apex of the launch.
- Engineering Academy – Hoover High School
 - 4-year intensive high school program designed by engineers and taught by engineers to mirror the first 2 years of undergraduate engineering curriculum and to teach real life skills.
 - Used Solidworks to design bridges which would eventually be created using file folders.

- Learned to write technical reports in LaTeX.
 - Performed Finite Element Analysis on the Solidworks Model