Design of Astella Modem by LOOP connection of Pump and Servo Motor

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Abstract: This IJSR document is made to show my latest RADAR Antenna MODEM named as “Astella Machine”. I made it via 2 spare electronic robotics parts from robocraze.com at cost INR 186. It is made up of 3-6V Mini Submersible Water Pump as RADAR Antenna with SG90 Micro Servo Motor as my new protocol designed MODEM for high coverage case scenarios. AS JLD Engineering and Management College lecturer in ECE department, this design is going to change the world of computers and electronics for high data processing modems with very high signal coverage in rural and urban areas. This invention can give 30 Crores INR business to our Engineering college and can raise revenues in 40 Lakhs per month.

Keywords: Astella, Modem, Pump, Motor, Servo

1. Introduction

This invention was made with only one goal in mind – Quality products in Computer Science and Electronics Engineering with better voice or video transmission over Internet. Modem design is a subject of passion and this design was a LOOP design for generation of better RADAR antenna-controlled Call Center Modems. This scientific modem can be used by Hutch datacenters with mobile work stations networks infrastructures. Here the 2 mini-machines produce voltage drop across coil to generate inductance created RF along with modem transmission. This breakthrough invention can be of great help in the field of healthcare and retail. Telecommunication industry can earn from this modem by creating satellite modems with greater efficiency.

2. Literature Survey

The following work on modem is inspired by the scientific works of Abhik Haldar of CSE department from JLD college along with the productive and creative works of Raja Mukherjee of ECE department from JLD college. In my 24 years of work related to retail e-commerce and telecom, I had come across many types of routers, bridges, switches and lastly modems. Also, I made scientific breakthrough in working with different types of pumps, servo motors, dc motors, robot motors. My latest research proved that we can write Supercomputers / Quantum Computers / Magnetic Computers MODEMS by using a permutation or combination LOOP database analysis with pumps and motors. The project was carried on with no investment to implement a typical PLUMBER switch / router / modem case study to analyze, understand and experiment on latest modem theories.

3. Problem definition

Over years, we had faced transmission errors problems with Signaling Routers / Modems and we had to give hard RESET or soft RESET to clear the alarm signal and to make the network correct by span of time. In this experiment theory, we had created a framework modem MODEL to miniaturize the modem size and to reduce the heating problem by designing smart robot motor driven mechatronics modem that can work efficiently for a long time. Astella modems can solve the bit errors problem in a much more efficient way. The research problem was lack of funding from USA, Great Britain, Russian and Indian research foundations. We solved this problem by designing the modem at cheapest cost and did mathematics to find out the routing call center number of Astella modem under study.

4. Methodology / Approach

Let us now analyze the modem design in the figures 1 – 4.
In the following figures, we show the wiring diagrams of pump and servo motor to generate a modem architecture to have more AI generated low risk network patterns. This makes the routing network via Astella modems more intelligent and more defect free. In Figure 5, we show the numbering matrix diagrams and related RADAR mechanisms for connectivities.

![Figure 2: Astella Modem [Servo Motor side view]](image2)

![Figure 3: Astella Modem [Submersible Pump side view]](image3)

![Figure 4: Astella Modem [Top view from another angle]](image4)

![Figure 5: Astella RADAR Antenna MODEM designs](image5)

![Figure 6: Astella MODEM data structures](image6)

In Figure 6, we displayed the different data structures related to this modem along with mathematics database having trigonometric and logarithm functions with modem connectivity architecture. We showed the network for 2 Indian telecommunication operators under TRAI namely Reliance JIO & Hutch (Vodafone). We did statistical triple summation analysis on trigonometric functions to get the data structures for the Astella modem. In Figure 7, we analyzed Astella as Call Center for BPO Inbound / Outbound call routing patterns with integral functions. We did script-based analysis of the modem with calls going from source to destination. In Figure 8, we did dial factor analysis with mobile series matrix for calls made from Kolkata Zone to Delhi / Mumbai / Bangalore Zones with mobile phone equations. Here the normal rules of matrix addition do not hold as we have mobile series as fields inside the matrix. The rules of computation are difficult and dependent on modem routing code patterns in software architecture.
In Figure 9, we analyzed the modem protocol error simulation with L2 [Layer – 2] Switch Server, Simulation LAB, Protocol Tester and Error Detection Codes with Test Modem. In Figure 10, we analyzed the modem database API [Application Programming Interface] design with 4 database API having USA, UK and Indian Telecommunication operators interacting with Call Centre1 API and Modem API. Yellow glowing LEDs of modem are shown by dark black circles or rectangles / squares.
In Figures 11 & 12, we understand Modem Frameworks by comparing it with IBM Zachman Frameworks and used Messenger CHAT architecture frameworks to understand the messaging platforms under Astella modem and then we analyzed the modem code computation under Astella modem with quadratic equations networks and plane [3 dimensional] equations networks. The modem core is shown with sample code running in it in # or * formats.

5. Results & Discussion

This research in Astella Modem is vital for research in TCS India, RIL India, Wipro India, IBM India, Accenture India, Cisco India and Alcatel-Lucent India as it can solve many network problems by recording the network nodes identities, defects and codes and hence routing in the correct destination with number directory along with TCP/IP network database.

6. Conclusion

We can conclude that Astella Modem has high potential for great sales in Asia-Pacific and USA as it is a compact mechanical modem with higher code coverage and better test results. We can expect more changes in modem designs in coming days with the advent of new IC [Integrated Circuit] modems with lesser heat generation with better heat sinks.
7. Future Scope

Future research works on mechanical-electrical modem can be on the basis of superconductor designs like LK99 superconductor. We can expect works in modem fields from Quantum computers also as the path is showing great insight into new fields of invention and discovery.

References


Author Profile

Rohan Sarker received B. Tech & MBA [HR & Marketing] degrees from Institute of Engineering & Management Kolkata in 2003 and 2023 respectively. Rohan received DHRM [HR] degree from Welingkar Mumbai in 2014. Rohan has worked in nearly 10 companies in India across 20 years of career graph. Rohan is now lecturer in JLD Engineering and Management college West Bengal (India). Rohan had 3 publications so far with 2 in HR and 1 in Marine Engineering. Rohan has worked as HR in BlueStone Kolkata and has given many HR presentations in Dabur Kolkata.