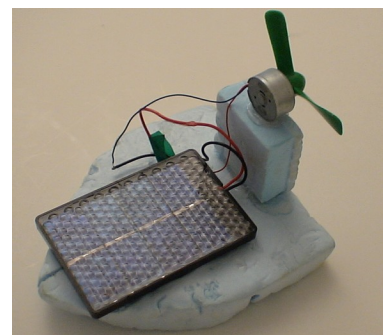# Projects done at by ATRC, subsidiaries, and affiliates.

ICT Related Projects.

- Artificial intelligence for Banking. KYC, AML and CFT.
- Digital currencies exchange development.
- Ecommerce with warehouse integration.
- DevOps : Agile, PMP, SDLC, Kubernetes, Jenkins, Docker, AWS, EC2, Appsody, and Kabanero.

Energy Projects

- 40 HP solar agricultural pumping implementation near Moro, Sindh, Pakistan. May 2017
- 12.5 HP solar agricultural pumping with submersible pump implementation in Malir district, Karachi, Pakistan. February 2018
- 3 KVA with flooded tubular battery storage home solar near national highway, Karachi, Pakistan. February 2019
- Multiple agricultural pumping projects in the pipeline. Cities include : Badin, Gharo, Gadap, Karachi, and Moro.

Water Projects

- Reverse Osmosis plant design and implementation for Fresh Water ™ Feb 2019. Karachi, Pakistan.
- Designed a way to solar power a 20KW reverse osmosis plant for a housing society in Karachi.

Projects that make money.

- Recession management business strategy development for a service based client in the UAE.
- Development of small and large scale economically feasible solar and wind power units for Sigma energy.
- Internet business feasibility studies for investors.
- Supervising research on cost competitive solar power production.
- Designed, developed and implemented 5 cities VoIP based Satellite Network for inter-cities and international call origination and termination for the 93 country code.

Projects that save money

- Development of digital banking security systems based on high security, reliability and performance experience gained from the Internet and telecom industries. June 2017 and ongoing research.
- Solar powered pumping for multiple 22KW (30HP) pumps for Agriculture, in a Farm near Moro, Pakistan. Researching businesses for Alternative Energy in Bio-Diesel, Fusion, and Wind Power
- Developed, implemented several ISPs' customized billing software and bandwidth management. Consulting and development for ISPs including : InstaNet, WebNet, MultiNet, CubeXS, Cyberaccess, GlobalNet, Zoooom.net, Digicom, RoboNet, Cybernet, Compunet.
- Outsourced IT support design and implementation, LAN and Printer sharing configuration for Cogent, Dubai.
- Design and implementation of solar powered agricultural water pumping solutions for farms near Nawabshab, Sindh.

Projects that Build relationships

- Developed and proposed the idea of PSEB's opensource Resource Center (OSRC)
- Organized the first opensource conference in Pakistan for IBM, PSEB, TReMU, ATRC, PIMSAT and Ministry of IT from concept to finish.

Projects that save time

- Development faster deployment of servers by evaluating various DevOps technologies available and integrating the best of breed opensource softwares available. Jan 2019 and ongoing research.
- Disaster recovery of NAS storage for Firefly in UAE.
- Remote Server Troubleshooting and Administration services.
- Installation and development of automated scripts for backups. Linux based file and print server with Windows client integration. Design and implementation of a business continuity and disaster recovery plan for data on the Linux based file server and MS Exchange server. Anti virus installation, monitoring and management for the entire company. Relay block list removal for company's MS Exchange Mail server for a reinsurance company in Dubai.

Projects that expand the business

- Development of Appliance Servers : NAS, Mail, Proxy, LDAP, and Backup
- Developing and maintaining Call Centers, and VoIP Telecoms networks for several Investors.

Projects that make work easier

- IT Department setup, servers for email, file sharing, user management, automated backups, and continuous monitoring, for ocean superior. UAE, Bahrain, Saudi Arabia.
- Consultancy for accounting and ERP software for Burj Capital, Karachi, Pakistan.
- Development of support infrastructure for open source collaboration softwares.
- Implementation and support for a network based fax system for a client in the UAE.
- Implementation and support for a web based invoicing system for a client in the UAE.
- Oracle, opensource Migration and E commerce Infrastructure management support for companies including : Shaheen Air Lines, Dollar Industries, HBFC, EOBI and Herbion.
- Modified POS software in Java and Netbeans to meet Restaurant's requirements. Added wireless printing to Kitchen printer for Hubbly Bubbly in Dubai.
- Deployed POS for Nara cafe in Dubai.
- Integrated and deployed inventory and POS for Friendly supermarket in Dubai.
- Modified and deployed PHP POS software to meet display and printing requirements for a tailoring shop in Dubai.

Projects that retain existing customers

- Security Implementation and Audit of intensive E-commerce applications
- Support for opensource ERP/CRM/SCM/BI systems for organizations.
- Optimized and secure proxy server designs for Cybercafes.
- Security Policy and Implementation for ISPs.
- Linux and TCP/IP training of system administrators of Controller of Naval Accounts (CNA) on AS/400
- BCMSN, CCNA, CCNP course for British Petroleum network administrators.

Projects which attract new customers

- Supervising feasibility analysis of Elsbett engine redesign costs.
- Support for opensource ERP/CRM/SCM/BI systems for organizations.
- Development of E commerce courses as new offerings.
- Open Source Migration support and training and research for large scale
- multinational and government clients.
- Provided consultancy and advice for Mobile wallets and payments from kiosks to Instanet Dubai.
- ERP and CRM installation and startup training for Aesthetic Interiors in Al Ain.
- SAMBA and Squid proxy server for Abahsain, Jebel Ali, Dubai.

Projects that solved specific problems.

- Developed a MAC address based WIFI server for hotspots. Added extreme proxy facilities and utilization of higher speed CPUs and more memory than the products available in the market. This project is a product developed for ATRC.

- Created a software based system to detect stock market manipulation for the Securities and Exchange Commission of Pakistan (SECP).

- Troubleshooting of VoIP quality issues on Linux for a Call Center in Karachi.

- E commerce Security Consultancy for Stock Exchange companies.

- Designing and configuration of HTTPS via Squid based Reverse proxy servers on Linux for Outlook Web Access.

- Configuration debugging for Micropoint's Cisco based IP Phones and IVR telephony system. Dubai.

- Email server disaster recovery for Safeer Group in Sharjah.

- Projects that made companies more competitive

- Installed, configured and continued support for UAE's Telecom Regulatory Authority (TRA) Linux based servers for Mail Relay, Reverse Proxy, Migration of MS Exchange to Kerio. Win AD integrated SAMBA server, Cisco ASA Firewall configuration. Dubai and Abu Dhabi offices. Complete troubleshooting support for MS Outlook Based clients connecting to Kerio Mail server.

- Installed, configured and continued support for aeCERT's Linux based servers for Relay server as a front end for Exchange with SMTP two way Relay, Reverse Proxy for Outlook Web Access, POP3 relay server, Cisco ASA Firewall settings. Dubai.

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- Provision of Analysis, Selection, Deployment and Maintenance services for ERP/CRM/SCM systems for Woodwards Pakistan.
- Extremely effective Implementation of a CRM system for a client in UAE.
- Security Design, Implementation and continuous monitoring for organizations.
- Integration of MS Exchange Server with Linux based Mail relays.
- Configuration of Windows and Apple based LAN desktops and Internet connectivity for Elseco in DIFC, Dubai.

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