Projects Handled @ NIOT-OOS DataCenter

1. **ADDRESSV1 &ADDRESS V2.0 (Advanced Data Reception and Analysis System).**
   Automated software for BUOY Data Quality and sensor management.
   - Language: ASP.NET, MVC.
   - Tools: Microsoft visual studio 2013/2019.
   - Database: Microsoft SQL Server 2017.

   Responsibilities :
   - ✓ Involved in Software Development, testing, fixing errors/bugs, maintance, generating reports and fixing bugs reported by end users.
   - ✓ Improvements Implemented in the existing software functionality based on NIOT Scientist requirements.
   - ✓ Regular Monitoring of Database and Backup Scheduling migration done.

2. **Sensor Management Module** - Automated software for BUOY sensor Life cycle management.
   - Language: ASP.NET, MVC.
   - Tools: Microsoft visual studio 2013/2019.
   - Database: Microsoft SQL Server 2017.

   Responsibilities :
   - ✓ Involved in Software Development, testing, fixing errors/bugs, maintance, generating reports and fixing bugs reported by end users.
   - ✓ Involved in Sensor Calibration details and certificates updation in database.
   - ✓ Changes in software and in report generation implemented based on time being requirements.

3. **Ticketing Tool-** using this tool oos data centre amc team can raise the sensor and buoy related Issues as Ticket. Automated email notification sent to corresponding oos Scientist team and also if the issue is related to deployed sensors automated **flagging** also done in sensor management module. Issues list Report generation also implemented.
   - Language: ASP, VB.NET.
   - Tools: Microsoft visual studio 2013/2019.
   - Database: Microsoft SQL Server 2017.

   Responsibilities :
   - ✓ Developed this tool as **full stack developer**, testing, fixing errors/bugs, maintance, Reports generation and fixing bugs reported by end users.

4. **Rama Logistics Management System**-using these application users can enter the Import/Export details of the items/sensor which is used for NIOT-RAMA cruise Deployment and Retrieval operations.

   Responsibilities :
   - ✓ Developed this tool as **full stack developer**, testing, fixing errors/bugs, maintance, Reports generation and fixing bugs reported by end user

5. **OMNI-RAMA (Indo-us) Joint Data portal**- Developed this web portal to share the **NIOT-OMNI buoys metadata** details open up a data portal for public access.
   - Language: PHP, JavaScript, CSS.
   - Tools: Xampp.
   - Database: MYSQL.

Responsibilities :
- ✓ Developed this tool as **full stack developer**, testing, fixing errors/bugs, maintance.
- ✓ Created the metadata database in DBCP format and (2012-2021) metadata OMNI-Buoy Information was added.
- ✓ Periodically update the metadata information in database after each cruise completed.

6. **High Definition Data Uploader**- Developed the web application to upload and maintain the Retrieved Sensors like (CT, ADCP, DVS and CPU Hard disk) data.
- • Language: ASP.NET.
- • Tools: Microsoft visual studio 2013/2019.
- • Database: Microsoft SQL Server 2017

Responsibilities :
- ✓ Developed this tool as **full stack developer**, testing, fixing errors/bugs, maintance.

7. **IMOON mobile application** – to view the Real time data of working buoy system which is interfaced with Google map.
- • Language: Android.
- • Tools: Android Studio.
- • Database: firebase.

Responsibilities :
- ✓ Involved in Improvements implementation of the existing application, testing with real-time mobile devices, fixing errors/bugs, maintance.

Projects Handled @ NIOT-CEE Department

1. *Title*: **Coastal Monitoring System.**
Role: Enhancing new features, Testing and user support.   .
Technology: VB.Net, Server2008R2.

Description: CMS Application designed to receive different formats of oceanographic data from Data loggers, Wave Buoy, ADCP via FTP from various locations. This application decodes the data based on different formats and stored in to database and also having features of creating new station, configure and manage the installed stations.

2. *Title*: **NIOT-Tide Observatory System**

Role: Enhancing new features, Deployment, Testing and user support.
Technology: Asp.net, C#, Sql Server2008R2 and IIS Server.

Description: C# Website designed to display different format of graph for decoded current meter data, wave data, Met data, ADCP data and Drifter data. This website designed to display the data sets through graphical and numerical format. This Website also display the predicted and processed data from the same system installed along Indian coast**.** In this Website we also Track the Location of **GpsWaveBuoy** with integration of Google Map.

3 **.** *Title:* **Stores Information Management System**

Role: Enhancing new features, Deployment, Testing and user support.
Technology: Asp.net, vb.net, Sql Server2008R2 and IIS Server.
Description: Web Based Application to manage the Stores Item and Generating Reports for   Department of Coastal Environmental Engineering. This application used for

New stock Entry, SlnoGeneration, Item Issue, Item Return, Gate pass generation for item outward issue, ItemUtilityRegister, Dashboard alert for contract, warranty, AMC, insurance and Report Generation for Assets, Consumable, Spares and working, not working, services and condemnation etc. Automated Email Alert System designed for sending remainder to user group before 30days in advance from the Expiry date.