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## We Develop Best Matlab Projects based on the Following Domains

- ✓ Image Processing.
- ✓ Power Electronics.
- ✓ Communication systems.
- ✓ Simulation.
- ✓ Simulink.
- ✓ Network Security.
- ✓ Steganography.
- ✓ Cryptography.
- ✓ Watermarking.
- ✓ Wireless
- ✓ Signal Processing.
- ✓ Remote Sensing.
- ✓ Wireless communication.
- ✓ Artificial Neural Networks.
- ✓ Bio-Medical.
- ✓ Genetic Algorithm.
- ✓ Fuzzy Logic .
- ✓ Neural Networks.
- ✓ Renewable Energy.

To Know More Details and Latest domains and Technologies which can be integrated with matlab .Contact Us . + (91) - 80 12 70 93 71

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### **IMAGE PROCESSING:**

Image Processing is an operation that performed into an image. Image Processing sub domains are listed below:

- **Medical Imaging.**
- **Digital Image processing.**
- **Audio Processing.**
- **Video processing.**
- **Signal processing.**
- **Biomedical Engineering.**
- **Geosciences and Remote Sensing.**

Medical Image processing to do major categories are Disease classification and Tissue Segmentation. Input images are in 2D or 3D format. Process have human organs are Brain, Lung, kidney, Liver, Retina and Heart. Organ functions are captured by scanning techniques (CT, MRI and X-Ray). Matlab accept all formats of data's. Images are processed for analyze the tissues, internal process of organs and to identify the status of the disease. This schema is really useful to take immediate remedy for particular organ problem. [Ex. Parkinson's disease].

### **Image processing concepts :**

- ✚ *Image extraction.*
- ✚ *Enhancement.*
- ✚ *Edge detection.*
- ✚ *Segmentation and manipulation.*

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## DIGITAL IMAGE PROCESSING :

Digital Image processing, take an image in a digital format. Digital images are, 2-Dimensional Images 3-Dimensional Images. Digital image processing greatly focus the concepts of security. Security has some sub process

- ❖ Watermarking.
- ❖ Steganography.
- ❖ Cryptography.
- ❖ Compression.

Audio Processing is also an important domain for performing the signal generation process. Audio related applications are developed for visually impaired peoples.

Video Processing is used for video surveillance system. Some of the process include in the video processing

- **Motion Detection.**
- **Object Tracking.**
- **Video tracking.**

## POWER ELECTRONICS:

Power Electronics is the art of converting electrical energy from one form to another form for convenient utilization. Usually, power electronics concepts are solved using Matlab Simulink. Matlab Simulink Toolboxes are used to implement the models.

- **Diodes.**
- **Thyristor .**
- **Bridges.**
- **Ideal Switches.**

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Process of Boosting the Converter has to be done using Matlab Simulation. Some of the Renewable Energy based projects are done with the help of Matlab Simulation. More number of controllers and converters to be run on Matlab Simulation

- AC-AC Converter
- AC-DC Converter
- DC-AC Converter
- DC-DC Converter

Using Matlab Simulink the Renewable Energy Systems are Maintain some of the Elements. There are Reliability, Efficiency, Cost, Volume, Protection, Control Active and Reactive Power. Most frequently increased applications of Matlab Simulink have to be listed below:

- Penetration of renewable energy
- Electric vehicles
- Plug-in hybrid electric vehicles
- Smart grids

## COMMUNICATION SYSTEM:

Signals are mainly focused in communication system. Communication system process is defined by Digital transmission. Communication Systems are developed for three main purposes.

There are –

- ❖ Analog Communication System
- ❖ Digital Communication System
- ❖ Hybrid Communication System

Matlab Simulations are focusing wireless communication processes. Digital Signal Processing problems are solved by Matlab Simulation Tool. In wireless communication also survive the security.

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Using MATLAB Simulation the communication system should overcome the problems of

- ✓ Multi-path fading
- ✓ Time dispersion which leads to inter-symbol interference (ISI)
- ✓ Lower bit rate capacity
- ✓ Requirement of larger transmit power for high bit rate
- ✓ Less spectral efficiency

Digital Signal processing audio signals are processed for

- Removal of unwanted background noise
- Removal of interference
- Separation of frequency bands
- Shaping of the signal spectrum

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