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SUSANNA MEDIDA

Profile

An IPR experienced professional seeking a challenging position in an organization where my skills and knowledge can be best utilized in successful completion of the assignments and be responsible to provide the team technical leadership, creativity, and technical judgment.

Educational Qualifications

M.Tech [83%] **2014 - 2016**
Electronics & Communication Engineering
[Communication Engineering & Signal Processing]
Acharya Nagarjuna University, Guntur

B. TECH [69 %] **2010 - 2014**
Electronics & Communication Engineering
Vignan's Nirula Institute of Technology and Science for Women
JNTU Kakinada

INTERMEDIATE/10 + 2 [86 %] **2008 - 2010**
Mathematics, Physics and Chemistry
Vikas Mahila Junior College, Guntur

S.S. C [74 %] **2007 - 2008**
Bishop Azaraiah High school, Vijayawada

Experience

- Freelancer – 2018 onwards
- Projects handled: Electronics and Communication Engineering, Electronics and Electrical Engineering, Computer Science, etc.
- Project skills: Search, Screening, analysis, and report preparation

Professional Skills

- Patent Screening
- Patent Analysis
- Patent search in free databases such as Google Patents, Espacenet
- Identifying novel concepts in the proposed inventions
- Patentability assessment
- Non-Patent Literature search

Technical Skills

- MS office Tools (Microsoft Office, Excel and PowerPoint)
- PowerBI
- MATLAB
- C Language

Projects

Performance analysis of different adaptive filter algorithms for ECG denoising

Electrocardiogram (ECG) is conducted to monitor the electrical activity of the heart by presenting small amplitude and duration signals as result. Exact ECG data is difficult to determine because of noises present in ECG.
Various types of Adaptive algorithms for denoising ECG signals (such as LMS, NLMS, SLMS, SSLMS and FX-LMS) were studied. Based on Signal Noise ratio (SNR) and Mean Square Error (MSE), the performance of these algorithms was analyzed using MATLAB.

Color Extended Visual Cryptography Using Error Diffusion for High Visual Quality Shares

Visual Cryptography (VC) is a technique for achieving data security. Color visual cryptography encryption method produces meaningful color shares with high visual quality via visual information pixel (VIP) synchronization and error diffusion.
VIP synchronization retains the original VIP values before and after encryption and error diffusion produces shares with high visual quality.

Strengths

- Hard and smart worker
- Quick Learner
- Good problem-solving and analytical skills

Publications

- Published a paper on "Application of adaptive filter algorithms for cancelling the effects of power line interference and baseline wander noises in ECG signals" in International Journal for Science and Advance Research in Technology [IJSART] - Volume 2, Issue 7 in July 2016
- Participated in two days MATLAB workshop on "Image Processing & Applications" organized by Vignan's Nirula Institute of Technology & Science for Women in 2012
- Participated in two days workshop on "Antenna Designing and Analysis using CAD-FEKO" organized by Virtual Technologies, Coimbatore in 2012
- Participated in "APP JNANA 2012" organized by JIGNASA, Vijayawada in 2012
- Presented a paper in "Vaganza 2K13" on "Heart failure alert systems" organized by Nalanda Group of Institutions, Sattenapalli in 2013

Personal Details

Name	Medida Susanna
Father's Name	Medida Nagamalleswara Rao
Nationality	Indian
Languages Known	English, Telugu
Marital Status	Married
D. O. B	02/08/1993

Declaration

I hereby declare that the above furnished details are true to the best of my knowledge.

Place: Hyderabad
Date: **04-04-2024**

Signature
(M. Susanna)