

**Dr.Pranitha Karthikeyan**  
**M.E, Ph.D,PDF(IITM pravartak)**  
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**Proprietor**  
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### **PROFESSIONAL SUMMARY**

- **Proprietor of SRI MATIMAGING TECHNOLOGIES, Avadi, Chennai.**
- **COMPLETED POST DOCTORATE IN IITM PRAVARTAK CATALYSING INNOVATION for Drone Specifications using Python and MATLAB**
- **Project Lead at IITM Pravartak Technologies for Anti Drone design under guidance of Dr.A. Sivathanu Pillai, Adjunct faculty, IIT Madras**
- **Engaged as a Professor of Practice in CSE(IOT) department at Sri Sairam Engineering College**
- **Completed PHD in Anna University as Full-Time research scholar**
- **Over 5 years of teaching experience as lecturer, programming tutor and 8 years of research experience as full-time research scholar in Anna University, Chennai**
- **Worked in Matlab latest version, tool boxes like image processing, image acquisition, signal processing and also worked in Matlab updated versions**
- **Designs tried in Matlab are converted to Simulink model**
- **Worked in integration of VIVADO and Matlab**
- **Worked in vivado for architecture design**
- **Worked in virtual reality designs using VREALM software in Matlab**
- **Worked in ISRO respond proposal for NRSC, Hyderabad and visited NRSC for project approval and presentation**
- **Provided AICTE webinars and seminars based on image processing using Matlab and implementation using VIVADO**
- **Published research-based works in scopus indexed journals and Annexure journals**
- **Providing research-based ideas for startup companies**
- **Over Three years of IT experience as a QA Engineer, involved in programming, test design, test development and implementation of test procedures for Client server and web development projects.**
- **Sound Knowledge of SDLC and Testing Methodologies.**
- **Complete software development lifecycle (SDLC) experience, from business analysis, to development, testing, deployment, documenting, maintaining and user training**

- Ability to work in AGILE environment and SCRUM methodologies
- Extensive knowledge of QA methodology, standards and procedures such as creating and executing test plans and test scripts generation.
- Proficient in automated testing for client/server, Internet, Intranet and web applications using automated tools.
- Excellent analytical, problem-solving and documentation skills. Team player with excellent interpersonal communication skills. An enthusiastic and out-going individual, with good ability to interact with colleagues.
- Experienced in the use of Automated Testing Tools such as Selenium with TestNG and Junit for Quality Assurance.
- Created Junit Test cases for the weekly regression testing.
- Defect tracking using JIRA.
- Excellent track record of successful completion under tight deadlines.
- Experienced in preparing and executing Test Plans, Test Scripts, Test Reports and Documentation for both Manual and Automated Tests. Planning and running the test scripts and keep track of Bugs.
- Experienced in Functional Testing, Integration Testing, Regression Testing, Security Testing, Performance Testing, Stress Testing, Load Testing, User Acceptance Testing.
- Well experienced in deploying Automated Testing Tools in the testing phases.
- Creating automated test scripts for testing the Functionality's of Planned Test Cycles.
- Exceptional verbal, written, communication skills.
- Proficiency in HTML with CSS and HTML with Java Script.
- Working in MYSQL with simple queries.
- Good analytical, problem solving and interpersonal skills with a strong desire to achieve goals
- Analyzed user requirements, setup test environment, prepared test strategy.
- Vskills Certified Selenium Professional

## **TECHNICAL SKILLS**

Operating System	Windows, Mac and iOS
Languages	VB Script, Java, C, HTML5 with CSS and javascript, Verilog, VHDL, Matlab coding, python
Database	MySQL, SQL Server
Testing Tools	Selenium IDE, QTP, Selenium Web driver with TestNG
Bug Tracking Tools	JIRA, Test Director, Bugzilla
Browsers	IE, FF, Google Chrome and MAC Safari
Version Control	Subversion (SVN), VSS

## **EDUCATION**

**Completed POST DOCTORATE IN IITM PRAVARTAK CATALYSING INNOVATION**

**Completed PHD in Anna University as Full-Time** research scholar

**Master of Engineering** in Very Large-Scale Integration (VLSI), 2012 passed out, Kongu Engineering College, Perundurai, Erode.

**Bachelor of Engineering** in Electrical and Electronics Engineering, 2008 passed out, KSR college of Engineering, Tiruchengode, Erode.

## **RESEARCH EXPERIENCE**

9 years of research experience in image processing field and concentrated tools like MATLAB and Xilinx VIVADO.

Based on my research experience I have started a startup company **SRI MATIMAGING TECHNOLOGIES** through MSME udhayam, handled online classes on enhancing reality

into image processing effects and projects concentrated on DRDO Technology foresight, IDEX and MSME image processing projects using python.

### **LIST OF PUBLICATIONS**

#### **International journal**

Pranitha.K, Dr.G.Kavya, An efficient image compression architecture based on optimized 9/7 wavelet transform with hybrid post processing and entropy encoder module, **published in Microprocessor and Microsystems, Elsevier, 2023, (Impact factor: 3.503).**

Pranitha.K, Dr.G.Kavya, Data compression with high peak signal to noise ratio using Bisectonal Cylindrical wavelet transform for a satellite image, **published in International journal of Engineering and Technology (UAE), 2018, volume 7, No (4.6).**

Pranitha.K, Dr.G.Kavya, Literature Survey Of Image Compression/Decompression Techniques For space and Telehealth applications, **published in oxidation communications, book 2 volume 42(2019), pp 151 – 159.**

Pranitha.K, Dr.G.Kavya, Arun Kumar.M, A Detailed Illustration of VLSI Block Design Implementation Using Vivado HLS and Arty kit, **published in Universal journal of Electrical and Electronics Engineering, ISSN: 2332-3280, 2020.**

Pranitha.K, Dr.G.Kavya, Arun Kumar.M, Implementation and Elaborated Block Design for ZYBO kit Using Vivado High Level Synthesis Tool, **published in Test Engineering and Management ISSN: 0193-4120, 2020.**

#### **International Conference**

Pranitha.K, Dr.G.Kavya, Literature Survey of Image Compression/Decompression Techniques for Telehealth applications **published in Proceedings IEEE International Conference on Photonics and High Speed Optical Networks ICPHON 2018 pp. 63-68.**

Pranitha.K, Dr.G.Kavya, Data compression with high peak signal to noise ratio using Bisectonal Cylindrical wavelet transform for a satellite image **published in proceedings**

of International Conference on Cognitive Computing and Informatics Systems ICCIS 2018 pp. 101-108.

### National Journal

Pranitha.K, Dr.G.Kavya, A Systematic Method for Hardware Software Codesign using Vivado HLS, **published in International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-4, November 2019, PP 467-472.**

### **PREVIOUS WORK EXPERIENCE**

**Client:** Standard chartered bank, Karapakkam, Chennai      **May2015 – November 2015**

**Company:** Capgemini PVT Ltd, Chennai

**Role:** Associate Consultant

#### **Responsibilities:**

- Worked in **CREDIT MATE** application, analyzed user requirements, setup test environment, prepared test strategy and test cases.
- **CREDIT MATE** application is based on loan process and risk assessment.
- Developed and implemented test plan, setup test priorities and test scenarios.
- Conducted Requirements walkthrough with the Users, Development, and Project Management Team and testing team.
- Executed Base & Enhancements tests. Tests covered **functionality** and **database** verification.
- Performed **Smoke, Functionality, Integration, System, Regression** tests based on Analysis, and understanding of the requirements, non-functional specifications and end-user needs.
- Executed all kind of scenarios for **User Acceptance Testing**.
- Used **Parameterization** for using various data to test the **CREDIT MATE** application.
- Used **ALM** for **Change Request System** for defect tracking and reporting, also followed with the development team to verify defect fixes and updated defect status.
- Worked in **AGILE** environment and familiarized with the AGILE terminology such as **Iterations** and **Planning Meetings**.
- Worked closely with Developers in resolving the issues and understanding the functionality for future reference.
- Involved in Daily Status Meetings and weekly Team Meetings.

**Environments:** Credit mate application, ALM.

Client: Dictionary.com, Oakland, California  
Company: PNS Technologies, CA, USA  
Role: QA Engineer

September 2013 – November 2014

**Responsibilities:**

- Developed Manual Test cases for different projects and converted them into Automation scripts.
- Executed Base & Enhancements tests. Tests covered **functionality** and **database** verification.
- Analyzed user requirements, setup test environment, prepared test strategy and test cases.
- Developed and implemented test plan, setup test priorities and test scenarios.
- Conducted Requirements walkthrough with the Users, Development, and Project Management Team and testing team.
- Executed all kind of scenarios for **User Acceptance Testing**.
- Participated in Validation and **data driven testing** with different sets of data.
- Used JIRA for **Change Request System** for defect tracking and reporting, also followed up with the development team to verify defect fixes and updated defect status.
- Produced timely Testing Metrics and Summary Reports for project management and the quality assurance manager throughout testing life cycle for use in gauging testing status and identifying any course corrections needed to ensure adequate coverage and quality.
- Prepared and Executed **Test Plans** and **Test Cases**.
- Developed Manual Test cases for different projects and converted them into Automation scripts.
- Executed Base & Enhancements tests. Tests covered functionality and database verification.
- Performed Smoke, Functionality, Integration, System, Regression tests based on Analysis, and understanding of the requirements, non-functional specifications and end-user needs.
- Executed all kind of scenarios for User Acceptance Testing.
- Acts as first line of support for testing weekly releases, including entering and closing issues and working with test cases
- Participated in automation scripts Walkthroughs.
- Worked closely with Developers in resolving the issues and understanding the functionality for future reference.
- Involved in Daily Status Meetings and weekly Team Meetings.
- Responsible for weekly regression testing

- Works with the Module Leads to ensure test cases and scenarios are assigned and being tested and that tester understand the assignment.
- Provide bi-weekly status reports to module leads and QA lead.

**Environments:** Java, PHP, MYSQL, Selenium web driver with TestNG, Junit, SEO, JIRA, Wiki, Various Browsers, iOS.

**Client:** Ask.com, Oakland, California

**June 2012 – August 2013**

**Company:** PNS Technologies, CA, USA

**Role:** QA Engineer

**Responsibilities:**

- Analyzed user requirements, setup test environment, prepared test strategy and test cases.
- Developed and implemented test plan, setup test priorities and test scenarios.
- Conducted Requirements walkthrough with the Users, Development, and Project Management Team and testing team.
- Involved in **Risk Analysis & Gap Analysis** based on the requirements.
- Developed Manual Test cases for different projects and converted them into Automation scripts.
- Executed Base & Enhancements tests. Tests covered **functionality** and **database** verification.
- Performed **Smoke, Functionality, Integration, System, Regression** tests based on Analysis, and understanding of the requirements, non-functional specifications and end-user needs.
- Executed all kind of scenarios for **User Acceptance Testing**.
- Created Junit Test cases for the weekly regression testing.
- Used **Parameterization** for using various data to test the application.
- Participated in Validation and **data driven testing** with different sets of data.
- Used JIRA for **Change Request System** for defect tracking and reporting, also followed with the development team to verify defect fixes and updated defect status.
- Produced timely Testing Metrics and Summary Reports for project management and the quality assurance manager throughout testing life cycle for use in gauging testing status and identifying any course corrections needed to ensure adequate coverage and quality.
- **Participated in automation scripts Walkthroughs.**
- Worked in **AGILE** environment and familiarized with the AGILE terminology such as **Iterations** and **Planning Meetings**.

- Worked closely with Developers in resolving the issues and understanding the functionality for future reference.
- Involved in Daily Status Meetings and weekly Team Meetings.

**Environments:** Java, PHP, Linux, Hudson, Selenium webdriver with TestNG, JIRA, JUnit, Wiki, Various Browsers.

**Company: Nurture kids, California, USA**

**June 2012 – November 2014**

**Role: Programming Tutor**

**Responsibilities:**

- Handled HTML programming and VB script for lower grade students.
- Conducted Animation class for higher grade students.
- Handled Microsoft package for lower grade students.
- Handled software development course for higher grade students.

**College: Kongu polytechnic college, Perundurai    November 2008 – September 2010**

**Role: Lecturer**

**Responsibilities:**

- Worked as a Lecturer for 2 years in Kongu polytechnic college, **Kongu engineering college branch (KEC), Perundurai.**
- Concentrated areas like Analog and digital circuits, Electrical machines, Micro processor and Micro controller, electronic devices and circuits.
- Handled software development course and provided coding capability efficiently for interested students.
- Awarded as a best lecturer in the year of 2009 for providing 100 percent result in all areas.