

SHAMBHAVI SACHID, M.S.

shambu1985@gmail.com

OBJECTIVE	<ul style="list-style-type: none">• Seeking a challenging position in field of Software Engineering.
PROFESSIONAL SUMMARY	<ul style="list-style-type: none">• Software professional capable of involving full software development cycle with comprehensive knowledge of software design and implementations.• Extensive background in Digital Image Processing and Software development.• Technical expertise of designing, implementing and debugging in C, C++, MATLAB, SIMULINK, PYTHON, RUBY and Code Composer Studio.• Strong programming concepts and problem solving skills in a number of programming languages, tools and technologies• Good interpersonal and communication skills, commitment, result-oriented, zeal to learn new technologies and undertake challenging risks.
EDUCATION	<p>M.S., Electronics and Communication Engineering, Dharmsinh Desai University, Gujarat, India.</p> <p>B.S., Electronics and Communication Engineering, South Gujarat University, Gujarat, India.</p>
SKILLS	<p>Software: MS Office, C, C++, Git, HTML, CSS, JavaScript, jQuery, MATLAB, SIMULINK, PYTHON, RUBY, CODE COMPOSER STUDIO</p> <p>Operating Systems: Windows, Linux</p> <p>Technologies: Image Watermarking, Image Compression, and Image Encryption.</p>
PROFESSIONAL EXPERIENCE	<p>Assistant Professor, Dharmsinh Desai University, Gujarat, India. (2008-2012)</p> <ul style="list-style-type: none">• Involved in teaching various courses of B.S (EC) as well as M.S (ECS). Conducted lectures and laboratory of various software courses such as C/C++ Programming, Digital Image Processing and Digital Signal Processing and Communication Systems. Guided B.S students for their final year projects.• Executed technical sessions during the various Continuing Education Programs organized at University like 'Advanced MATLAB Programming' and 'Digital Image Programming using MATLAB'.
PROJECTS 2011-2012	<ul style="list-style-type: none">• Library Management System: Developed a console-oriented application using C++ for maintaining records of books and members. Features included: Add, issue, return, renew, modify, and delete books and members.• Railway Reservation & Cancellation System: Implemented a windows based Railway Reservation & Cancellation System in C++ having both admin and user level access to provide train details, seat reservation/ cancellation and issue train tickets.
2010-2011	<ul style="list-style-type: none">• Banking System: Implemented windows based application to keep record of daily banking transactions. Functionality included: Open new account, modify/delete accounts, balance enquiry and banking transactions like deposit/withdraw and funds transfer between accounts.• Salary Management System: Developed a console oriented Salary Management software for maintaining employee records with features including add/modify/delete employee records, calculating and generating salary slips depending on the employee grade and number of workdays.
2008-2010	<ul style="list-style-type: none">• Performance Evaluation of the compressed image with Invisibly Embedded text message:• Proposed a Discrete Wavelet Transform based blind watermarking technique in MATLAB for embedding a gray scale watermark into a grayscale image. Robustness of the algorithm was tested with respect to lossy compression like JPEG and the extent to which the watermark was recovered back after undergoing compression.• Proposed a new watermarking scheme, which uses error correcting codes like (7,4) Hamming code for encoding the watermark before embedding and decoding the watermark after recovering.• Analyzed and simulated in MATLAB the impact of Gaussian, Impulse, Speckle and Poisson noise on the images and their histograms.
2007	
COURSE WORK	<ul style="list-style-type: none">• Computer Programming: Computer Programming in C, C++, Advanced MATLAB Programming and SIMULINK, Code Composer Studio, Interactive Programming in PYTHON, Programming in RUBY.

**CERTIFICATIONS
AND
PROFESSIONAL
DEVELOPMENT**

**WORK
AUTHORIZATION**

- **Communication Engineering:** Digital Image Processing, Digital Signal Processing, Communication Systems, Mobile Communication, Error correcting codes.

Completed the following online courses (2012-2013)

- Image and video processing: Offered by Duke University.
- Programming in Python: Offered by University of Toronto.
- Advanced Programming in Python: Offered by University of Toronto

Work Authorization available.