

JOEL C. THOMAS

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SOFTWARE/PROGRAMMING ENGINEER

Over 4 years of experience with software programming, maintenance, testing and statistical data analysis. Excellent written and verbal communication skills and extensive experience in technical documentation.

Application Software/ Programming

- COBOL, MVS, CICS, JCL, REXX
- DB2, SQL, SAS, and SPSS
- C, C++
- JAVA, PHP, HTML
- Matlab, COMSOL
- DesignCAD LT
- Microcal Origin, Mathcad
- Verilog, VHDL
- Pspice, CALP
- MS Office, MS Visio
- SILOS, Quartus

Operating System/Assembly Language

- Unix, Linux
- Windows
- Mainframe OS/390, z/OS
- INTEL 8085/8086 Microprocessor
- PIC Microcontroller

Education

Master of Science, Electrical Engineering– GPA: 3.5/4
University of Houston
Houston, TX – Jan 2010

Bachelor of Engineering, Electrical and Electronics Engineering– GPA: 8.2/10
Sathyabama Institute of Science and Technology,
Chennai, India – May 2005

Authorized to work in US and currently possess valid EAD card.

Professional and Research Experience

RESEARCH ASSISTANT, Electrochemical Nanofabrication and Nanomaterials Synthesis Laboratory, University of Houston, Texas, June 2008 – Present

Research lab at UH dedicated towards electrochemical processes in semiconductor fabrication.

- Modeled Cu Surface Morphology Evolution during Electropolishing and its simulation by image analysis in Matlab.
- Created a toolbox script in Matlab with complete UI handling Fourier analysis of image processing and other parameters.
- Conducted various experiments for data collection.

STATISTICAL ANALYST, Measurement and Evaluation Center, University of Houston, Texas, Jan. 2008–Dec. 2008

University initiative to offer consulting on data collection and data analysis for research, surveys and exam scores.

- Performed statistical analysis on research data and surveys conducted at UH using statistical software (SPSS and Excel VB).
- Delivered clear and concise documentation on all data analysis.
- Chi-square tests, reliability tests, factor analysis, regression analysis, etc.

SOFTWARE ENGINEER/QUALITY ANALYST, Infosys Technologies Ltd., Bangalore, India, Nov. 2005–July 2007

Leading global provider of business and technology consulting, and software solutions. Over 100,000 employees worldwide.

- Mainframe software maintenance and testing at CMMI level 5 for a fortune 500 client.
- Built test cases and created automated test scripts for mainframe application testing.
- Business requirement analysis and data analysis using DB2, SQL and SAS.
- Used REXX for code conversion in mainframe migration.
- Coordinated and worked on projects with clients from various locations across time zones.

Achievements and Other Activities

- Recipient of Academic Competitive Scholarship Award at University of Houston.
- Member of IEEE, TcSUH, Phi Beta Delta, Houston Bridges.
- Editor and author of “How-to-do tips on Computer and Office applications” at www.lytebyte.com
- Media Equipment Coordinator at City of Refuge Church, Houston.