

## SENIOR RESEARCH SCIENTIST - OPERATIONS MANAGER

### Summary

High-achieving management professional possessing excellent communication, organizational and analytical capabilities. Devises innovative solutions to resolve business and technology challenges.

### Highlights

- Process improvement
- Multi-unit operations management
- Natural leader
- Organized
- Results-oriented
- Purchasing and procurement
- Detail-oriented
- Superb time management skills
- Operations management
- Computer-savvy
- Complex problem solving
- Excellent written and verbal communicator
- Presentations
- White paper development
- Cost reduction and containment
- Contract management
- Relationship building
- Microsoft Office Suite expert
- Productivity improvement
- Troubleshooting
- Work flow planning
- Cross-functional team management
- Skilled negotiator
- Sound judgment
- Account management
- Quality leadership

### Accomplishments

- Research Spot Light Award, Georgia Institute of Technology, 2004
- Reviewer for Journal of Photovoltaics, 2015
- Session Chair, 34th IEEE Photovoltaic Specialists Conference, 2009
- Contributing Author, Department Of Energy - "SolarMat-2", 2014
- Contributing Author, Department Of Energy - FOA 0000259 PVMI, 2010
- Contributing Author, Department Of Energy - FOA 0000492 F-PACE, 2011
- Sub-Area Chair, 39th IEEE international conference for Industrial Solar Cell, 2013
- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Board of Director: Energy & Environment Expo Inc. 2006-2009
- Energy Institute Energy Science and Technology (EST) Program for the University of California Energy Institute, Berkeley, CA -(Reviewer for seed-grant proposal 2008)
- Awards committee for the department of ECE at the Georgia Institute of Technology, Year 2005, 2006, 2009, and 2010.
- Training professional for the microelectronics IEN clean room.

### Experience

Senior Research Scientist - Operations Manager Jul 2013 to Current

Florida East Coast Railway 1/4 Miami, FL

- Defined project deliverables and monitored status of tasks.
- Drafted action plans and led meetings with department executives to review project status and proposed changes.
- Managed a project budget of \$~5M.
- Delivered status reports to stakeholders for budgeting and planning purposes.
- Monitored team progress and enforced deadlines.
- Collaborated with cross-functional teams to draft project schedules and plans.
- Served as the single point of contact for project scheduling and changes.
- Developed slideshows and other forms of media to present project progress to the executive team.
- Partnered with Department of Energy and Ga Tech Sponsor Department to address timely reports.

Research Engineer II & Operations Manager Jul 2009 to Jul 2013

UI 1/4 Melville, NY

- Defined project deliverables and monitored status of tasks.
- Delivered status reports to stakeholders for budgeting and planning purposes.
- Monitored team progress and enforced deadlines.
- Served as the single point of contact for project scheduling and changes.
- Updated and managed 7 projects.
- Oversaw production efforts to guarantee that projects were completed in a timely and budget-conscious manner.
- Effectively managed resources, created project schedules and maintained department budgets.
- Maintained open and effective communications with project teams to increase productivity.

Operations Manager Jul 2005 to Jul 2009

Hackensack University Medical Center 1/4 Eatontown, NJ

- Maintained open and effective communications with project teams to increase productivity.
- Provided hands-on technical support, advice and mentoring to all levels of personnel.
- Led cross-functional team to share technology across departments to improve operational efficiency.
- Monitored project schedules for 9 projects at a time.
- Cut company operating budget by \$60-100K through negotiations.
- Boosted company efficiency through technology upgrades and process improvements such as increasing efficiency of solar cells and publications.
- Mentored, coached and trained 7-10 team members.
- Identified inefficiencies and made recommendations for process improvements.

Research Engineer - I Aug 2001 to Jul 2005

Openmarket 1/4 Seattle , WA

- Worked with product engineers and product managers to design new solar cell structures.
- Tested solar cells across various structures.
- Fixed bugs as they were encountered.
- Envisioned inspired new products, features and flows.
- Set up equipment for employee use.
- Installed and performed repairs to hardware, software and peripheral equipment, following design and installation specifications.
- Developed training materials and procedures.
- Automated repeatable tasks where possible.

Research Intern Jan 2001 to Aug 2001

Georgia Institute Of Technology 1/4 City , STATE

- Inspected, tested and measured materials, products and installations to spec.
- Measured solar cells to ensure compliance with specifications.
- Weighed raw data, reviewed parts history and organized results prior to quality analysis.
- Handled, measured and mixed chemicals following prescribed methods and testing requirements.
- Conducted material inspections of incoming materials.

Wholesale Executive Jan 1996 to Jan 2001

Pepboys 1/4 City , STATE

- Placed special orders and called other stores to find desired items.
- Maintained knowledge of current promotions, policies regarding payment and exchanges, and security practices.
- Computed sales prices, total purchases and processed payments.
- Recommended merchandise based on customer needs.
- Administered all point of sale opening and closing procedures.
- Facilitated monthly and quarterly physical inventory counts.
- Replenished floor stock and processed shipments to ensure product availability for customers.
- Addressed customer inquiries and resolved complaints.
- Directed and supervised employees engaged in sales, inventory-taking and reconciling cash receipts.
- Worked closely with the district manager to formulate and build the store brand.

Education

Six Sigma Black Belt , Lean 2014 Georgia Institute of Technology 1/4 City , State , USA

- DMAIC, DMADV or DFSS,
- Statistical and fitting tools: Analysis of variance, General linear model, ANOVA, Regression analysis, Correlation, Scatter diagram, Chi-squared test
- Business Process Mapping/Check sheet
- Cause & effects diagram (also known as fishbone or Ishikawa diagram)
- Control chart/Control plan (also known as a swimlane map)/Run charts
- Cost-benefit analysis, CTQ tree, Design of experiments/Stratification, Histograms/Pareto analysis/Pareto chart, Pick chart/Process capability/Rolled throughput yield, Root cause analysis
- SIPOC analysis (Suppliers, Inputs, Process, Outputs, Customers)
- Taguchi methods/Taguchi Loss Function
- Value stream mapping

MBA , Marketing 2006 Mercer University 1/4 City , State , USA

Micro and Macro Economics A

Accounting and Finance

Management and Marketing

Managerial Economics

Managerial Accounting

Issues in Business Law and Corporate Responsibility

Marketing Concepts and Practices

Corporation Finance

Operations Management Science

Ethical Leadership

**MBA Capstone:**The MBA Capstone is the culmination course for the MBA program. The course provides students with the opportunity to correlate, integrate and apply the concepts and principles that have been learned in the core and concentration courses of the MBA program. The course is normally taken as the final course in the MBA program. The concluding case seminar must be taken in residence at Mercer.

Bachelor of Science , Electrical and Computer Engineering 2001 Georgia Institute of Technology i¼ City , State , USA

Electrical and Computer Engineering

Photovoltaics Â

Member of India club

Member of IEEE club

Taught two semesters

Bachelors of Science

Publications

th Session Chair, 34 IEEE Photovoltaic Specialists Conference, 2009 Contributing Author, Department Of Energy Â SolarMat-2 , 2014 Contributing Author, Department Of Energy - FOA 0000259 PVMI, 2010 Contributing Author, Department Of Energy - FOA 0000492

Skills

budget, Financial, Grants, hiring, materials, meetings, Modeling, negotiations, presentations, processes, progress, Project lead, proposal, RESEARCH, Six Sigma, Phone, annual reports

Professional Affiliations

F-PACE, 2011 th Sub-Area Chair, 39 IEEE international conference for Industrial Solar Cell, 2013 Member, Institute of Electrical and Electronics Engineers (IEEE) Board of Director: Energy & Environment Expo Inc. 2006-2009 Energy Institute's Energy Science and Technology (EST) Program for the University of California Energy Institute, Berkley, CA -(Reviewer for seed-grant proposal 2008) Awards committee for the department of ECE at the Georgia Institute of Technology, Year 2005, 2006, 2009, and 2010. Training professional for the microelectronics IEN clean room.

**ACADEMIC COURSES TAUGHT** Quarter Course Number of Students Fall, 2005 VHDL, Teaching Assistant 30 Fall, 2014 Solar Cells, Substitute Teacher ~25