NIKHIL SAHASRABUDHE

1620 Grant St. Apt # 508 Denver CO 80203, hightechengineer@hotmail.com/ (720) 841-0202

CAPABILITIES:

- Electrical/ Electronics Engineer (**M.S.E.E., B.S.E.E**.) with diverse background including **Technical Analysis, Technical Support, Technical RFP's, and Project Coordination** in the following domain areas: Federal, State, local and Education.
- Strong academic foundation & practical experience in the fields of **Power Systems, Energy**, **Instrumentation** & **Control Systems** with solid experience **interpreting electrical, mechanical & construction engineering drawing/ schematics**.
- Hands on experience using testing equipment, such as ohmmeters, voltmeters, spectrum analyzer, and oscilloscopes, to check the circuits for proper connections, **ensuring electrical compatibility and safety of electrical components**.
- Solid experience **assisting Program Managers** with **project proposals, manuals, cost estimates, timelines & schedules**.
- Possess a high level of discipline, an entrepreneurial spirit, professional integrity, a passion for achieving organizational success, and a desire to always play on a 'winning team'.

TECHNICAL APPLICATIONS:

- Programming Software : C, C++, Visual Basic6.0, MySQL, MatLab, AutoCAD
- Operating Systems: Windows 95/98/XP/Vista, DOS, Unix, Macintosh, Sun Solaris, AIX, Linux
- MSOffice2007 (Word, Access, Excel, PowerPoint, Outlook, Exchange), MS Project, MS Visio, iWork
- **Hands on Experience with:** A.C. Voltage Regulator, Inverters, D.C./ A.C. Motor Drives, 3 Phase Systems/Transformer, Servo & Stepper Motors, Medium & low Voltage Power Distribution Systems, Series lighting circuit calculations, Power Calculations, Wiring schematics, loops, Process & Instruments Diagrams, Power plans, lighting plans, One line/ Interconnection diagrams, Control schematics, Renewable Energy Systems, NFPA Codes & Standards, SCADA

EDUCATION:

- Master of Science, **Electrical Engineering,** University of Colorado Denver, CO 07/2011
- Bachelor of Engineering, **Electronics**, KBP COE & Polytech., Shivaji University, India 12/2007

RELEVANT COURSEWORK:

- Power Electronics, Electrical Machines, Adaptive Control System Design, Computer-Controlled Systems, Adaptive Signal Processing, Digital Communication, Industrial Management & Operation Research, Electronics Devices & Circuits, Electronics System Design, Linear Circuits, Digital Design, Embedded Systems, VLSI Design, Remote Sensing &GIS

RELEVANT LAB AND FIELD WORK EXPERIENCE:

- Speed control of DC shunt motor by armature voltage control/ flux control
- Load test on 3- phase induction motor
- SCR as Half wave controlled rectifier
- A.C. Power Flasher
- SCR step down chopper
- Single phase semi- converter/ Full- converter
- Brake load test on DC shunt motor
- Speed – torque characteristics of AC Servo motor
- D.C motor starters/ Three phase induction motor starters
- VI Characteristics of SCR
- Liquid level controller
- Single phase preventer
- Burglar Alarm/ Digital Firing Schemes

PROJECTS:

Dual Stochastic Adaptive Control (Coding in Matlab), University of Colorado Denver, CO   04/ 2011-07/2011

- Continuums of controllers ranging from CE controller to cautious controller are presented. Simulation shows the superiority of the IDC with respect to the CE and cautious controller, over finite horizons seems to indicate that **it can be used to treat the problem of the poor transient behavior** of most adaptive controllers.
- **Applications:** Electric Furnaces, Air conditioners, Photo Resist Coating, Pre-heater, water/ wastewater facilities design

Autonomous Path Control of Marine Vessels (Coding in Matlab), University of Colorado Denver, CO   01/ 2009-05/2009

- Developed PID heading controller and speed controller to stabilize the forward movement and direction. Used Root-Locus and line-of-sight projection algorithm for forward movement considering disturbances like wind and sea waves.
- **Applications:** To improve the speed of the convergence of the vehicle to the desired path.

WORK EXPERIENCE:

SOFTEC SOLUTIONS, INC., ENGLEWOOD, CO   04/2011-Present

Technical Analyst

- Successfully managed **technical support for proposal writing for variety of Federal, State and local clients**.

- Assisted Senior Technical Managers in **developing specifications, metrics, project plans & timelines to meet the scope, requirements, budget& resources available**. Created, tracked and maintained **Project Schedules using MS Project**.
- Served as a **primary point of contact** to multiple Hiring Managers, Project/Program Managers, and being accountable for results in a high volume, matrix driven environment.
- Successfully conducted internal technical interviews for candidates across multiple industry verticals which include: **Federal, State, local, Telecommunications, Power, Energy, Software/Technology, Financial, and Healthcare.**
- Assisted in developing opportunities by researching and identifying potential accounts, soliciting new accounts, building relationships vendor partners, **providing technical information and explanations**, and preparing quotations.

ASSESSMENT AND TESTING, METROPOLITAN STATE COLLEGE OF DENVER, CO   08/2008–04/2011

Technical Assistant

- **Assisted in troubleshooting user problems relating to Operating System issues, Network Connectivity, upgrades, MS Office products and Internet connectivity.**
- **Installed motion capture systems (Security Cameras) and trained employees how to operate these systems.**
- **Evaluated and installed hardware components, service packs and operating system upgrades.**
- Maintained Database through Banner Student Information System, which is an **Oracle Sungard** Product.
- Provided consistently high quality and timely customer service to Metro State faculty to set exams while mediating with a diverse group of students (over **20,000 students served annually**).

DEMOGALA, COLORADO TECHNOLOGY ASSOCIATION, DENVER, CO   06/2010- 10/2010

Marketing Researcher (Volunteer)

- Assisted the President, Program Manager, & sales team to promote organization's services (Colorado's premier technology events which draw between **600** and **1,000** people to each event, **with more than 25% at the Director, VP or C-Level**).
- Contributed ideas in brainstorming sessions and translated concepts into persuasive written materials.
- Accomplished follow up on social media and DEMOgala website to maintain and update with current events and announcements to keep company at the forefront of Colorado's technology and software industries.
- Assisted Program Manager in the **development of event schedule** and ensured that all aspects of the project stay on task.

DEPARTMENT OF ECONOMICS, METROPOLITAN STATE COLLEGE OF DENVER, CO   05/2009–11/2009

Technical Assistant: Dr. Kishore Kulkarni, AEA, MEA, EEA

- Assisted for the IJEB conference which was aimed at bringing together international scholars for exchange of ideas and discussion of recent results within all areas of Economics, Business, and Finance.
- Provided in-depth **technical support in pre-sales & post-sales situations to sales team, clients, and ad agencies.**
- Performed **development and implementation of storage, archive, and retrieval system** for electronic presentations.
- Assisted Program Manager in formulating event expense reports, track cost variances to ensure that projects stays on track.

WELL-POINT SURGICALS, MUMBAI, INDIA   08/2007- 05/2008

System& Software Consultant

- **Provided technical training and demonstrations** for **partners, customers, and sales team** helping them understand how to deploy company's business solutions. Reviewed manufacturer information to assure compliance with specifications.
- Involved in **creating Competitive Product research document and analyzing competitor product features**, creating presentation for sales and building knowledge pool for emphasizing Company's position in competitive market.
- Ensured **'one stop' technical support** for **Windows (2000/2003) servers**, printers, **remote access, routers**, and **firewalls.**
- Designed curriculum and materials, and delivered technical training for over **40 employees**, for introductory programs in Microsoft office suit, Windows 95; keeping staff motivated and focused while improving job satisfaction and productivity.

AFFILIATIONS, AWARDS AND ACTIVITIES:

- Member & Volunteer: Colorado Technology Association
- Employee of the month,04/2012
- Member: IEEE

- Second prize: Project 'Autonomous path control of marine vessels' , UCD 01/ 2009-05/2009
- Tutor: Statistics, Calculus, Trigonometry , MSCD, Denver, CO, 06/2009- 05/2010
- Desire to obtain **Professional Engineer (PE) licensure**

References are available upon request