

# VENKAT RAMSHESH (LinkedIn)

## WORK HISTORY

### Field Engineer, 05/2022 - present

#### United States Citizenship and Immigration Services (USCIS)

- Installation and support for laptops, workstations, printers, and AV equipment of USCIS staff, students, classroom, and offices
- Regular system software updates, hardware fixes, imaging of computers, maintenance of system servers and switches, remote worker support
- Addressing of tickets, customer issues in a timely manner and inventory management
- Certified in AWS Solutions Architect Associate and Certified Cloud Practitioner. Implemented labs for:  
**Networking:** VPC, Subnets, NAT, IGW, Egress gateway, Workspaces  
**Highly available and scalable architecture:** Conference raffle webpage using CloudFormation, ALB and autoscaling  
**Instances:** Blog on EC2 instance (<http://44.207.232.191:8000/>), RDS instances for database, Jump box  
**Serverless/EventDriven:** API's, Lambda function, Dynamo DB tables, SNS, SQS, SAM, Transcribing, chat app  
**Storage:** S3 for static website (<https://vramsheshpersonalblog.com>), EFS, EBS and file transfer family  
**Automation:** Elastic beanstalk for raffle webpage, Docker for HTTP server, CloudFormation templates, Python boto3 for creating S3 buckets, Systems Manager  
**Databases:** SQL and NoSQL databases  
**Security/Delivery:** Encryption, SSL certificates for website, Presigned URL, site-site and client VPN, CDN, Secrets Manager, IAM, Organizations, Cognito  
**Migration/upkeep:** Server and database migration  
**Query:** Athena
- Learnt Python, HTML/CSS (front-end), and Flask (back-end) programming during personal time. Implemented projects:  
**HTML/CSS:** Personal website (<https://vramsheshpersonalblog.com>)  
**Serverless:** s3 photos, video transcribing  
**Flask/API:** Personal blog, Café shops, Calorie tracker, Stock news, Spotify songs list, URL shortener, serverless chat app  
**Games:** Pong, snake, turtle race, quizzlet  
**Security:** SSL certificate tracker, packet sniffer, password generator  
**Lifestyle:** Pomodoro, rain alert, birthday wisher  
**Graphing:** Stock graphing project using matplotlib, web scraping  
Used libraries like Flask, Requests, Pandas, Matplotlib, Plotly, NumPy, boto3, beautiful soup and Turtle for these projects
- Preparing for the AWS Professional certification, currently studying Node JS. (Code for few projects: <https://github.com/kris1878/pythonprojects>)

### Field Engineer II, 11/2020 - 05/2021

#### Cytek Biosciences

- Installation and support for **Aurora flow cytometer** in Philly/NJ area in a timely manner
- Regular system preventative and update visits
- Identified major system issues that could arise and provided solutions for these problems.
- Adjusting parts stock, generating install and PM reports
- Updating manuals, technical documentation

### Field Engineer II, 04/2020 - 11/2020

#### Cytiva

- Installation and support for **OMX super resolution microscopes** (OMX V3, V4, SR, SR plus and FLEX models) in North America, Asia, and Europe in a timely manner
- Troubleshooting and fixing system issues on-site and remotely



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## PROFESSIONAL SUMMARY

Motivated, collaborative biomedical engineer skilled in IT, cloud, programming, and microscopy. Effective field engineer offering excellent skills in installation, training, maintenance, and testing of systems. Forward-thinking professional offering years of experience working in fast-paced environments. Known for reliability and knowledge. Organized and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to take on added responsibilities to meet team goals.

## CERTIFICATIONS

- AWS Certified Solutions Architect Associate, September 2022  
CVBPEGQCRJE4Q1S0



- AWS cloud practitioner, June 2022  
KCZ7CJ8JFEB4Q0KH



- Programming for Everybody (Getting Started with Python) XCZBAVAEH675
- Cisco Certified Network Associate, May 2000

## PROGRAMMING SKILLS

Python, Matlab, C, Image J, HTML/CSS, Bootstrap, Node JS

## EDUCATION

Ph.D., Biomedical Engineering, 2008  
University of North Carolina - Chapel Hill

M.S, Biomedical Engineering, 2002  
University of North Carolina - Chapel Hill

B.E, Instrumentation Engineering, 1999  
Mumbai University/University of Mumbai

- Minimizing average downtimes ~1 week
- Yearly preventive maintenance (PM) and hardware/software updates
- Updating manuals, technical documentation
- Adjusting parts stock, generating install and PM reports, quotations

**Field Engineer I, 01/2015 - 03/2020**  
**GE Healthcare Lifesciences**

- Installation and support for **GE OMX super resolution** (OMX V3, V4, SR and SR plus models) and Delta Vision microscopes in North America, Asia and Europe
- Trained users on image analysis software
- Troubleshooting and fixing system issues on-site and remotely
- Yearly PM and hardware/software updates
- Customer support and training of end users both remotely and on site, updating manuals
- Hired and supervised subcontractors to improve production and meet critical deadlines.
- Interacted effectively with site engineering team and field staff to coordinate work that complied with design and installation documents

**Research Instructor/Facility Manager, 07/2011 - 12/2014**  
**Medical University of South Carolina**

- Provide bioengineering and managerial support for the successful day to day working of the **Advanced Imaging Core** which include eight confocal, multiphoton & fluorescence microscopes and image processing workstations
- Instruct users on microscopy/imaging usage and projects, consult on projects involving use of light microscopy techniques within and outside the university
- Consulted users on image analysis and processing
- Organizer and instructor for the 2014 Fifth and 2012 Fourth Charleston Light Microscopy Workshop for the Biosciences
- Assisted in successful NIH grant application as part of Cell and Molecular Imaging resource
- Expanded the core instrumentation from two to eight microscopes during my tenure
- Led facility management staff and consultants in producing business plan that focused on facility operations

**Bioengineer/Facility Manager, 12/2007 - 06/2011**  
**Medical University of South Carolina**

- Provide bioengineering and managerial support for the successful day to day working of the center for **cell death, injury, and regeneration (CCDIR) and cell and molecular imaging resources**
- Organized and instructed for the 2010 Third and 2008 Second Charleston Light Microscopy Workshop for the Biosciences
- Assisted in successful NCI and NIH grant application from Hollings Cancer Center as part of Cell and Molecular Imaging resource
- Evaluated facility operations and personnel for safety and health regulations compliance

## PROFFESIONAL ACTIVITIES

- Reviewer for Journal of Biomedical Optics, Microscopy & Microanalysis and Methods
- Intravital Imaging Symposium at NIH, Bethesda, May 2011
- 2009 Workshop on FRET Microscopy, University of Virginia, Charlottesville
- Analytical and Quantitative Light Microscopy Course 2006, Marine Biological Laboratory, Woods Hole, Massachusetts

## EXTRACURRICULAR ACTIVITIES

- Member of UNC squash team
- Recreational salsa dancer

## SELECTED PUBLICATIONS

**Ramshesh VK** and Lemasters JJ. Imaging of mitochondrial pH using SNARF. *Methods Mol Biol.* 2012; 810:243-8

**Ramshesh VK**, Lemasters JJ. Pinhole shifting lifetime imaging microscopy (PSLIM). *Journal of Biomedical Optics*, 13 (6):064001, Nov-Dec 2008

Lemasters JJ, **Ramshesh VK**, Imaging of mitochondrial polarization and depolarization with cationic fluorophores. *Mitochondria, Methods in Cell Biology* 2007; L.A. Pon, E.A. Schon Eds.; 80: 283-295

**Ramshesh VK**, Knisley SB. Use of light absorbers to alter optical interrogation with epi-illumination and transillumination in 3-d cardiac models. *Journal of Biomedical Optics* 2006; 11

**Ramshesh VK**, Knisley SB. Spatial localization of cardiac optical mapping with multiphoton excitation. *Journal of Biomedical Optics* 2003; 8:253-259