

Amy Shah

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EDUCATION

Texas A&M University, Mays Business School College Station, Texas
Master of Business Administration December 2024

Vanderbilt University Nashville, Tennessee
Doctor of Philosophy in Biomedical Engineering August 2016

Vanderbilt University Nashville, Tennessee
Master of Science in Biomedical Engineering December 2013

Duke University Durham, North Carolina
Bachelor of Science in Engineering in Biomedical Engineering May 2011

EXPERIENCE

3M Aberdeen, South Dakota
Sr Quality Engineer, Enterprise Operations – Personal Safety and Respirators September 2020 – April 2022

- Led quality team of ~20 technicians at manufacturing plant during installation and qualification of two new manufacturing lines for N95 medical respirators as well as standard production on ~ 10 existing lines
- Inspected product during Performance Qualifications (PQs) and communicated results to cross-functional team for implementing solutions to manufacturing processes and facilitating transfer to production
- Led daily Tier meetings and trained quality assurance technicians and operators on release specifications
- Reviewed and resolved instances of product nonconformances, corrective actions, and customer feedback

3M St Paul, Minnesota
Sr Product Development Engineer, Health Care Business Group – Orthodontics June 2018 – September 2020

- Developed next-generation products for orthodontics and supported commercialized orthodontic devices
- Defined new product concept, developed technical capabilities for production, conducted patent and art search for relevant intellectual property landscape, and contributed toward one patent application
- Validated software solution as part of business partnership and conducted root cause analysis for customer experience as part of Scrum team for agile project management
- Selected for peer-nominated Circle of Technical Excellence and Innovation team award at second round level

3M St Paul, Minnesota
Sr Product Development Engineer, Health Care Business Group – Digital Oral Care August 2016 – June 2018

- Led research and development of intra-oral imaging systems and technologies related to dentistry
- Decreased customer complaints through optimizing technical parameters related to product performance
- Guided Senior Design team of 5 students at Marquette University in developing system for quality tests
- Communicated experimental results to cross-functional team members during meetings and in internal reports

Vanderbilt University Nashville, Tennessee
NSF Graduate Research Fellow, Optical Imaging Laboratory July 2011 – August 2016

- Initiated a new project developing methods for personalized medicine and drug screening for cancer
- Mentored three Vanderbilt undergraduate students and one high school student in engineering research
- Authored four first-author peer-reviewed publications, four co-author papers, and one co-author book chapter
- Reviewed ~13 articles for peer-reviewed journals including Nature Communications and Cancer Research

LEADERSHIP & INVOLVEMENT

Engineering World Health (EWH) Program Tanzania
Summer Institute Volunteer June 2009 – August 2009

- Troubleshoot and repaired medical equipment in 300-bed Huruma Hospital using locally available materials
- Conducted inventory of medical equipment and trained hospital staff in using medical equipment