SUNAY BHAT
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INDUSTRY, RESEARCH, AND ENTREPRENEURIAL EXPERIENCE

Lockheed Martin – Santa Barbara Focalplane   **Goleta, CA**
Systems Integration/Test Engineer Associate   September 2017-Present
- Working extensively in infrared detector characterizations, radiometry, process improvements, and production support with mid-wave InSb and nBn focal planes in cryo-cooled systems
- Providing primary support in multiple major technical efforts including cross-site data correlation and specification characterization projects
- Completed three major cost-savings packages, including a cross-site test-requirement change based on an in-depth analysis of unnecessary radiometric test requirements

Red Ribbon Recruiting LLC   **Los Angeles, CA**
Co-Founder and Technical Operations Manager   August 2018-Present
- Founding LLC with fellow former student athlete using advanced data basing and visualization techniques to offer collegiate coaches analytic tools for targeted recruiting and team improvements

Nano Terra Inc.   **Cambridge, MA**
Electrical Engineering Research Intern   June-August 2016
- Completed the design and prototype construction of a chemical sensor embedded system while improving data rate transmission performance by an order of magnitude
- Developed software in C++ while testing and selecting hardware components for initial product

Oak Ridge National Laboratory – Manufacturing Demonstration Facility   **Oak Ridge, TN**
Research Assistant   July-August 2014
- Assisted research with 3-D metal printers on graded composition printing and software to predict microstructure as a function of thermal cycling

UT Nonwovens Research Laboratory - University of Tennessee   **Knoxville, TN**
Research Assistant, Part Time – UT Nonwovens Research Laboratory   August 2014-May 2016
- Evaluated conductivity of carbon nanotube (CNT) yarns and graphene reinforced polymeric fibers

EDUCATION

University of Tennessee   **Knoxville, TN**
BS in Electrical and Computer Engineering, Summa Cum Laude (GPA: 3.91)   May 2017

TECHNICAL SKILLS

Programming and Software
- Expert: MATLAB (radiometric calculations, data analysis, instrument control, machine learning)
- Advanced: Python (data harvesting, custom libraries), C++ (coursework), Office 365 (engineering notebooks, critical program and design reviews, production test procedures)
- Proficient: PowerBI (data visualization), SQL Microsoft Access (databasing)

Hardware
- Extensive troubleshooting and support of test hardware including Agilent power supplies/analyzers, Keithley DMMs, Electroglas wafer prober, thermal chambers, environmental stress testing equipment, etc.
- Soldering, PCB design, basic IC design, embedded systems development, serial GPIB, National Instruments
- Industry and academic lab experience with clean rooms, microscopes, machining tools, sample prep, etc.

LEADERSHIP/COMMUNITY EXPERIENCE AND AWARDS
- UTK Student Athlete on Varsity Tennis Team, 2013-2017 (2016-2017 Team Captain, Four-Time SEC and ITA Scholar Athlete Award, 2014 NCAA Championships Sweet Sixteen Appearance)
- Member of Student-Athlete Advisory Committee with 50+ hours of community service, 2015-2017
- Five time Lockheed Martin next-gen employee recognition recipient and lead/co-lead on multiple STEM community outreach events
- UTK Chancellor's Honors for Outstanding Academic Achievement and Scholar Athlete, 2017

PUBLICATIONS

Azari, H., Bhat, G., Hiremath, N. **Bhat, S.** (2017) Structure and Properties of Polypropylene Graphene Composite Filaments. The Fiber Society 2017 Fall Meeting and Technical Conference.

Toth, Albert J.; **Bhat, Sunay G**.; Treadway, Christopher A.; Abdelwahed, Ammar S.; and Leach, Samuel C., "Min Kao Autonomous Robot Tour Guide" (2017). University of Tennessee Honors Thesis Projects.