Sarah Makhija | Data Analyst | Multidisciplined Engineer
Hermosa Beach, CA | U.S. Person | Past DoD Secret Clearance (2009)
Professional Website: LimitDoesNotExist.com | LinkedIn | SarahMakhija@gmail.com | (310) 560-9853

My nonlinear career path equipped me with a versatile skill set encompassing technical proficiency, multimodal communication, and exceptional relationship-building abilities. I exhibit excellent quantitative reasoning, technical writing skills, and the ability to quickly grasp complex technical concepts and make them easily understandable.

EXPERIENCE

Limit Does Not Exist, Virtual & On-Site, South Bay, CA - *High-End High School & College STEM Tutor*
JANUARY 2009 - PRESENT (Full-Time: 8/2017-5/2023 | Part-Time: 1/2009-8/2017 & 5/2023-Present)
- Mentor students attending Ivy League universities and the top 5% of best private high schools in California.
- Provide guidance in over 30 courses including Advanced Placement Computer Science, Physics, Statistics, Calculus I/II/III, Chemistry, Environmental Science, and Advanced Topics in Biological Research.
- Demonstrate willingness to learn by regularly attaining expertise in increasingly advanced topics.
- Proactively adapt to changing business demands, demonstrate self-motivated problem solving, and prioritize client satisfaction by establishing long-term relationships as a trusted source of reliable support.

Fusion Academy, Virtual & On-Site, Hermosa Beach, CA - *Math & Science Teacher/Mentor*
AUGUST 2012 - OCTOBER 2020 (Full-Time, Part-Time, Substitute)
- Taught 25 unique courses, including Economics and Intro to Engineering, at an elite private high school.
- Designed engaging lessons and lab projects utilizing sensors, analysis software, and simulations, communicating scientific theory while drawing connections to industrial laboratory procedures.
- Created well-documented STEM curricula, leading to crucial regional and national accreditation.
- Managed student projects, designed customized courses, and kept multiple unrelated initiatives on track.
- Thrived in a fast-paced mid-sized startup environment as an early hire at the 7th campus, and collaborated with a values-driven team to build a lucrative company, currently boasting 80+ campuses nationwide.

Northrop Grumman, Manhattan Beach, CA - *Electrical Hardware Engineer*
OCTOBER 2007 - SEPTEMBER 2009 (Full-Time)
- Tested and modified RF hardware for Advanced Extremely High Frequency (AEHF) communications satellites, created verification tests, and presented results and potential weaknesses at design reviews.
- Represented Northrop Grumman's Systems Engineering Integration and Test team at Lockheed Martin's manufacturing facility, supporting senior engineers with signal processing, analysis, and troubleshooting.

Raytheon, Long Beach, CA - *Systems Engineer*
MAY 2006 - OCTOBER 2007 (Full-Time)
- Using sparse source material, wrote detailed technical publications on electro-optical sensor systems.
- Led hands-on training at Naval Air Station Jacksonville, covering the complete disassembly, build, laser alignment, integration, and testing of Advanced Targeting Forward Looking Infrared (ATFLIR) pods.

COMMITMENT TO COMMUNITY
- Facilitate challenging conversations by mentoring cancer patients through Leukemia & Lymphoma Society's First Connection program and Light the Night events.   2007 - Present
- Exemplified dynamic communication skills, fostering strong loyalty among returning students through coaching over 2,000 hours of beach volleyball classes and lessons to adults of all skill levels.   2008 - 2017

EDUCATION
University of Colorado - Boulder, CO
- B.S. **Electrical Engineering** plus Biomedical Engineering Option   2006

Dataquest.io
- **Data Analyst in Python** Path ~120-hour bootcamp | Data visualization, business analysis, etc.   2023

TECHNICAL TOOLS AND LANGUAGES
- Spectrum analyzers, signal generators, oscilloscopes, multimeters, vector network analyzers
- Ansys STK, OrCAD Capture/Pspice, MATLAB/Simulink, LabVIEW, LaTeX, Canva, digital whiteboards
- Data science fundamentals: Python, Numpy, Pandas, Jupyter Notebooks, Git, Bash, SQL, Tableau
- MS Office, Google Workspace (Word, PowerPoint, Teams, OneNote, Basic Power BI, **Advanced Excel)**