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SHEN GE, PMP CSSGB

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SUMMARY

I am a creative and entrepreneurial engineer with a diverse set of skills including space dynamics, coding, system engineering, and project management. I love space and enjoy developing new technologies of significant impact stretching the frontiers of discovery and enabling space exploration. I am passionate about what I do and work well in dynamic team environments.

SKILLS

Technical: Space Systems, Spacecraft Dynamics (GNC), Modeling and Simulations, Software (Python, MATLAB), Linux Mint, Project Management, Technical Writing, Microsoft Office (Excel, Word, Visio) | **Soft:** Blogging, Editing, Chinese

EXPERIENCE

Independent Contractor Houston, TX

2016 – Present

- Conduct sales and simulating physics for Houston small satellite launch vehicle company.
- Develop spacecraft systems design library with Python.
- Instruct primary school students in an aerospace after school program as part of GO Strategic's STEM program.
- Tutor students in physics, math, Chinese, and test prep independently and via tutoring companies.

Process Management Consultant Houston, TX

2016

- Developed Lean Six Sigma DMAIC tools that reduced cycle time for reworked goods at Sharps Compliance from an average of 27 days to 5 days saving the company over \$102K annually.

Simplify Solar Houston, TX / **Marketing & Grants**

2014 – 2015

- Managed marketing initiatives by forming relationships with three businesses and 40+ customers, completed two residential solar installation projects, created content for blogs and regularly updated social media to gain over 1500 followers.
- Led writing for two Department of Energy grants – Small Business Voucher and SolarMat 4 worth \$2M.

SolarSyz Houston, TX / **Business Development**

2014 – 2015

- Coordinated sales of products worth \$70K by marketing existing products and introducing new solar packages.

Triton Launch Systems Houston, TX / **Project Engineer**

2014

- Conducted market research on 20 small satellite companies and participated in verbal and written communication with two potential customers; talks resulted in letter-of-intent from one company with a potential market of at least \$100K annually.
- Performed technical studies on small satellite payload integration into spacecraft systems in FORTRAN, which identified possible options that would reduce spacecraft development cost.

ECAPS LLC College Station, TX / **Co-founder & Project Manager**

2012 – 2014

- Led a team of eleven, conducted space systems integration and wrote milestone reports for the \$1M Asteroid Mitigation Technology (AMT) project, a technology conceived by our company, resulting in conceptual design completion.
- Spearheaded research, systems integration, and grant-writing for a space telescope project in MATLAB and Excel, submitted as two NASA proposals worth \$150,000 each.
- Researched space resource exploitation, coded simulations in MATLAB, wrote report, and presented at NASA workshops.

Excalibur Almaz Houston, TX / **Research Intern**

2012

- Designed cislunar spacecraft electrical power and ECLSS systems in Excel which was later adopted by the company.
- Simulated drag and heating of tethers for space reentry vehicles in MATLAB, which improved spacecraft performance.

Independent Contractor Houston, TX

2011 – 2012

- Led a team of four to compete in the 2011 ESNC (European Satellite Navigation) to use the European Galileo satellite space system, which won first stage for two concepts (European water sensor and app called HitchOn).
- Formulated strategy for the future of space exploration by leading a team of eight to write the grant "A Pipeline for Creating Future Cosmic Explorers" for DARPA-funded 100 Year Starship initiative.
- Coordinated a team of five to hold a two-day space conference on the Isle of Man where over 50 people attended.

EDUCATION

Project Management Professional Certificate (PMP)

June 2017

Lean Six Sigma Green Belt Certificate (CSSGB)

November– December 2016

TEXAS A&M UNIVERSITY, MS Aerospace Eng., College Station, TX

January 2009-August 2011

GEORGIA INSTITUTE OF TECHNOLOGY, BS Aerospace Eng., Atlanta, GA

August 2004-December 2008

GEORGIA INSTITUTE OF TECHNOLOGY, BS Physics, Atlanta, GA

August 2004-December 2008

ORGANIZATIONS

AIAA, Project Management Institute, Planetary Society, Vox Culture (Public Relations), The Bridge of Light Radio (Radio Host)