

shen@shenge.us

SHEN GE, CSSGB

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==US CITIZEN==

SUMMARY: Aerospace engineer adept in spacecraft subsystems, analysis and modeling (MATLAB, Python, Excel), and technical writing. Wrote and secured research funding for \$1M and led an international team of eleven.

Technical Skills: Systems Engineering, Space Architecture, Simulation, Software (Python, MATLAB), Linux, Proposals, Technical Writing, Microsoft Office | **Soft Skills:** Business Development, Customer Interface, Chinese, English, Blogs

EXPERIENCE

INDEPENDENT CONTRACTOR Houston, TX

2016 – Present

- Code open source Python package for design of spacecraft subsystems. (<https://github.com/shenge86/aerolibb>)
- Tutor students in physics and math.
- Online systems engineering course and Project Management Professional (PMP) courses in work.

PROCESS MANAGEMENT CONSULTANT Houston, TX

2016

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

SIMPLIFY SOLAR Houston, TX / **Marketing & Grants**

2014 – 2015

Startup offering a turnkey web platform for the residential solar market

- 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

Solar equipment packager and distributor

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

TRITON LAUNCH SYSTEMS Houston, TX / **Project Engineer**

2014

Aerospace startup developing horizontal takeoff vehicles for the small satellite market

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

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

2012 – 2014

Aerospace startup developing asteroid deflection and detection technology

- 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, submitted as two NASA proposals worth \$150,000 each.
- Researched space resource exploitation, wrote white paper, and presented at two NASA JSC workshops.

EXCALIBUR ALMAZ Houston, TX / **Research Intern**

2012

Private aerospace company offering reusable orbital spacecraft

- Designed cislunar spacecraft power and life support systems, which was later adopted and implemented by the company.
- Simulated drag and heating of tethers for reentry vehicles, which improved spacecraft design.

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 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

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

American Institute of Aeronautics and Astronautics, Rotaract (Rotary Club extension), Vox Culture (activism / arts nonprofit)

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