JEAN-ALEXANDRE TURBAN

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EDUCATION

California Institute of Technology (Caltech)   2012 – 2016

- Bachelor of Science in Mechanical Engineering and Minor in Computer Science
- Relevant coursework: Statics and dynamics, thermodynamics, mechanics of materials, prototyping and design, fluids, algorithms, discrete math, data structures.

WORK EXPERIENCE

California Institute of Technology   Fall 2013 –
Computer Science and Physics Tutor

- Help students with various subjects including Newtonian physics and computer languages such as C++ and Python

Jet Propulsion Laboratory – NASA   Summer 2014
Summer Intern

- Worked with a team in the Advanced Deployable Structures group to construct a high precision deployable carbon fiber ring truss, thus furthering the development of NASA's "Starshade"
- Built several components with a precision in the order of 10^{-3} and put together a gravity compensation fixture to offload the entire truss
- Awarded Homer J. Stewart Fellowship for summer research in the field of aeronautical engineering

California Institute of Technology   Summer 2013 – Spring 2014
Undergraduate Researcher

- Research for Bill and Melinda Gates "Reinvent the Toilet Challenge" on Caltech's behalf
- Developed and implemented a system to communicate with and receive information from Caltech's prototype over GSM (cellphone) networks which allows for transmission of data in 3rd world countries
- Awarded James J. Morgan Fellowship for summer research in sustainability

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PROJECTS AND ACTIVITIES

- Currently working on developing my website and learning to use microprocessors for use in quadcopters
- Engineering Without Borders – working with the club to design and construct a fresh water spring source in Nepal
- Caltech Bouldering club – founder and president. I plan trips and raise money for members to go rock climbing
- NCAA DIII Soccer – two year varsity

ADDITIONAL SKILLS

- Proficient in Solidworks, Windows, Linux, Mac OS, Python, C++, HTML, CSS, VBScript
- Fluent in English and Spanish along with basic knowledge of French