

Raoul-Emil Roger Khouri

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**HONORS & AWARDS**

Conrad Competition Champion Grade 11  
My school sent my team to the NASA Space Center in Houston, Texas to present our methane harvesting system (Eco-Cooker) to a series of judges in competition with other teams in the Conrad Awards - Spirit of Innovation Challenge. Of the 472 teams in the clean energy competition, my team was chosen as the grand recipient of the \$10,000 prize.

MIT Book Award Grade 11  
Received the MIT book award for my sharpness in Mathematics.

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**CLUBS & ORGANIZATIONS**

Gulliver Preparatory Engineering Team Grades 10-11  
The lead designer for the engineering team, submitting products such as the Eco-Cooker to international design competitions such as the Conrad Competition.

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**Machinima**

MIT Game Lab Grade 13  
With the aid of the MIT Game Lab, the team is creating a machinima parody titled "FREE SPEACH". The team both designed and rigged characters for the machinima parody using Autodesk Maya.

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**ATHLETICS**

College Football Grade 13  
Playing as a defensive linemen for the MIT football team.

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**EMPLOYMENT**

Key Biscayne Dermatology and Plastic surgery Grades 10-11  
Designed and 3D printed prototype medical parts, and then produced them on a CNC machine at a machine shop.

Piece Makers Grades 10-11  
Designed aviation parts in 3D CAD for Piece Makers, a FAA-approved machine shop.

Advanced Aerospace Components Grade 12-13  
Constructed a 3D printer for the fabrication of product representations, and created the CAD files for the product representations.

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**PUBLICATIONS**

Co-Author of The Keys to Fat Grafting Grade 11  
The second author in The Keys to Fat Grafting. Submitted to *Annals of Plastic Surgery* (under review). I did the mathematical models and I created figures using 3d CAD and Photoshop.

Co-Author of Breast Implant to Fat Conversion Grade 11  
The third author in Implant to Fat Conversion. I derived the algorithm for converting the MRI scans to 3D volumes for measuring the volume of the breast. I also learned 10 different Radiology software programs in order to do so.