

GMU Senior Design Capstone Students at IEEE SIEDS Conference 2017

<https://www.flickr.com/photos/hfamily/albums/72157680012179923/page1>











X= Long
Y= Lat
h= Altitude
V= True airspeed
 Ψ = Heading
m= Mass
T= Thrust
 θ = Bank angle
 ϕ = Flight path angle

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PLEDGE
ON MY HONOR AS
STUDENT, I HAVE
NEITHER GIVEN NOR
RECEIVED AID ON THIS
ASSIGNMENT / EXAM
WRITE OUT AND SIGN











Source o

- The Environmental Protection Agency states there is an average of 16.5 billion tons of "Carbon Dioxide" released in the atmosphere each year.
- CO₂ makes up 81% of total greenhouse gases.
 - Followed by Methane (11%)
 - Fluorinated Gas (3%)
- The Electricity Production is responsible for about 37% of the total CO₂ emissions.

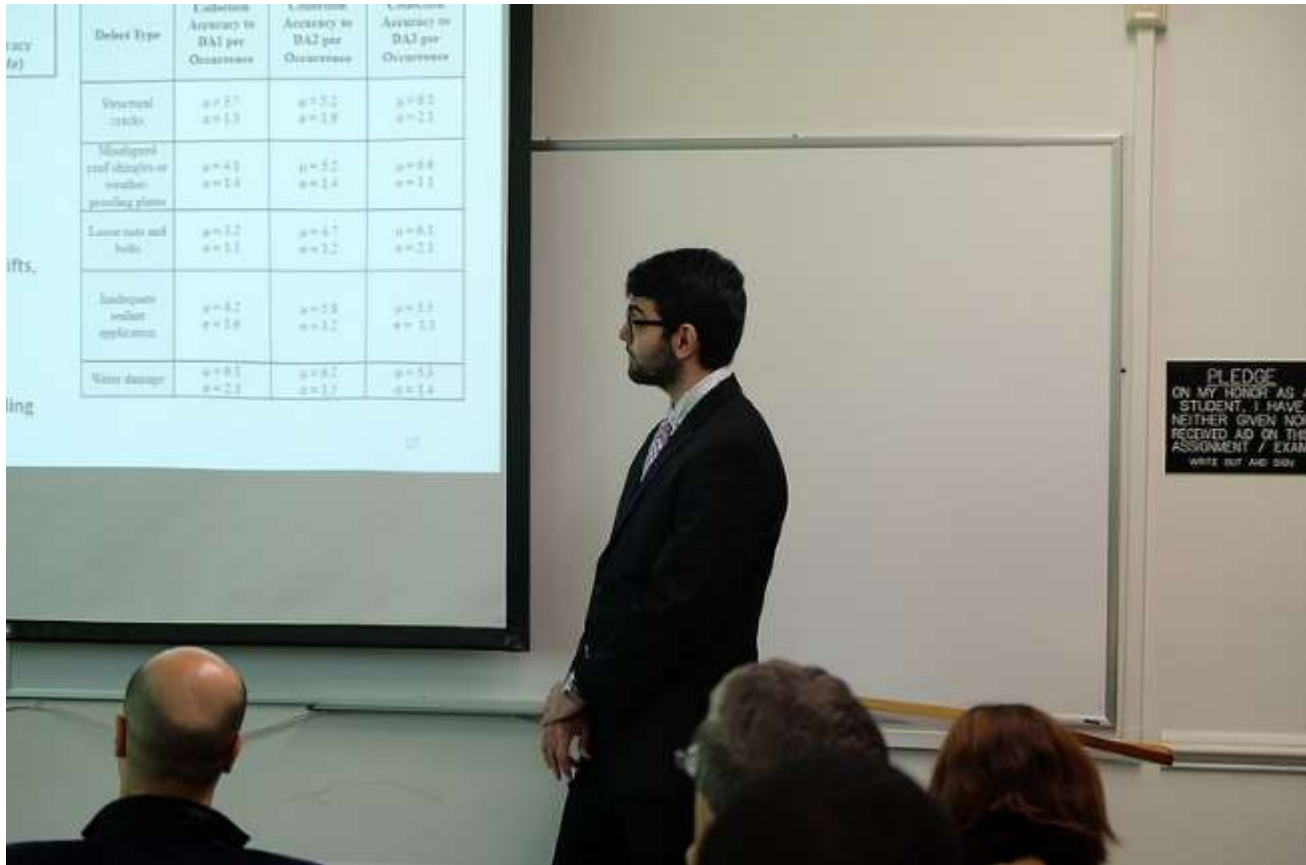
*Overview Of Greenhouse Gases | Greenhouse







- 12: Low-Angle
Vertical
1. Hum
- Acc
- Acc
 2. Hum
Idem
- Can
- Acc
etc.
 3. Aeris
Idem
- UAV
- UAV



Delet Type	Collection Accuracy to DA1 per Occurrence	Accuracy to DA2 per Occurrence	Accuracy to DA3 per Occurrence
Structural tracks	$\mu = 2.7$ $\sigma = 1.3$	$\mu = 3.2$ $\sigma = 1.9$	$\mu = 6.2$ $\sigma = 2.1$
Modified roof structures or weather-protection plates	$\mu = 4.1$ $\sigma = 1.4$	$\mu = 5.2$ $\sigma = 1.4$	$\mu = 6.6$ $\sigma = 1.1$
Lower roofs and bents	$\mu = 3.2$ $\sigma = 1.1$	$\mu = 4.7$ $\sigma = 1.2$	$\mu = 6.1$ $\sigma = 2.1$
Insulation without application	$\mu = 4.2$ $\sigma = 1.6$	$\mu = 5.8$ $\sigma = 1.2$	$\mu = 5.5$ $\sigma = 1.3$
Water damage	$\mu = 6.1$ $\sigma = 2.1$	$\mu = 6.2$ $\sigma = 1.9$	$\mu = 5.9$ $\sigma = 1.4$

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Design - Technology Alternatives

Material	Material	Material	Material
Steel	Aluminum	Carbon Fiber	Composite
Wood	Concrete	Brick	Block
Plastic	Glass	Rubber	Leather
Textile	Paper	Cardboard	Insulation
Paint	Sealant	Adhesive	Fasteners
Welding	Drilling	Machining	Assembly
Finishing	Testing	Documentation	Review

