

A5 Group CAD Project Gemini

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Hyunsoo Chun

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Group Beauty Shot

- ▶ Gemini was a 2 crew Apollo proving ground
- ▶ Launch mass was 3.8 MT, with 455 kg of propellant
- ▶ 12 Gemini flights were flown, with duration between 5 hours and 14 days

YOUR
IMAGE
HERE

External 3 View

YOUR
IMAGE
HERE

Interior View

YOUR
IMAGE
HERE

Color Coded

Person	Color
Ahmed Woodson	Blue
Mark DeVince	
Charles Hanner	Green
Blaire Weinberg	Grey
Hyunsoo Chun	Red

YOUR
IMAGE
HERE

Launch Vehicle

YOUR
IMAGE
HERE

Baseball Card

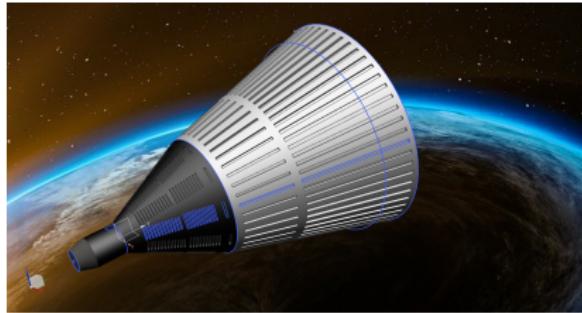


Programmatic	
Program Dates:	1962-1966
Launches:	19
Crewed Missions:	10
Mission Duration:	5-336 hours
Cost (1967):	1.3 \$B
Launch Complex:	LC-19 Kennedy
Titan II - GLV	
Payload	7900 lbs (LEO)
Rocket Platform	Titan
Stage 1	
Engines	1 LR77-AU-7
Thrust	430,000 lbf
ISP	288 s
Burn Time	156 s
Fuel/Propellant	N2O4 & Aerozine 50
Stage 2	
Engines	1 LR91-AU-7
Thrust	100,000 lbf
ISP	316 s
Burn Time	180 s
Fuel/Propellant	N2O4 & Aerozine 50
Spacecraft	
RCS System	16 Attitude Control Thrusters
Max Diameter	120"
Cabin Diameter	90"
Parachute & RCS Housing	36.60"
Reaction Control Thrusters	4
Launch Mass	3890 kg
Crew Size	2
Re-entry Module	1982 kg
Retrograde Module	592 kg
Equipment Module	1278 kg

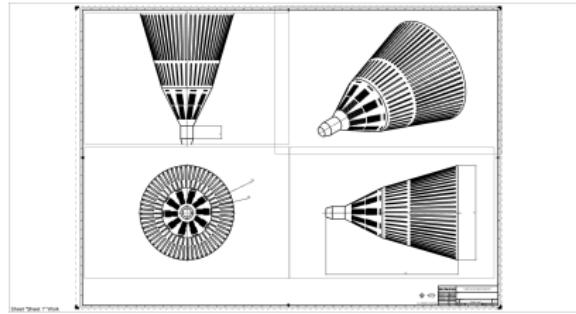
The Gemini Program hosted by NASA between 1961 and 1967 had an estimated value of 1.3 \$B (7.6 \$B in 2018 value) and launched a total of twelve missions, of which ten were manned missions. Gemini was a precursor test program for the rapidly developing Apollo mission, and allowed Michael Collins (Gemini 10), Buzz Aldrin (Gemini 12), and Neil Armstrong (Gemini 8) to get to know each other well before the first Moon landing.

YOUR
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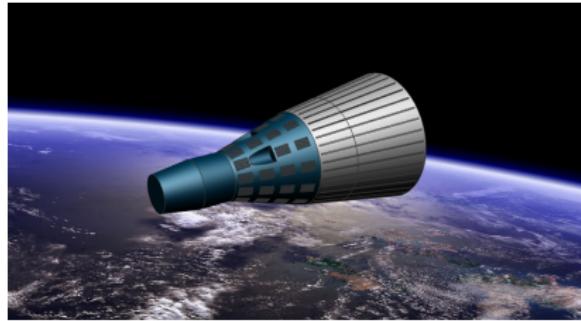
Woodson: Beauty Shot



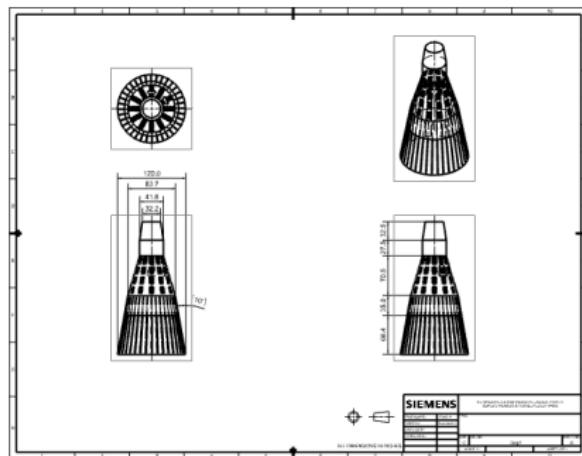
Woodson: 3 View



DeVince: Beauty Shot



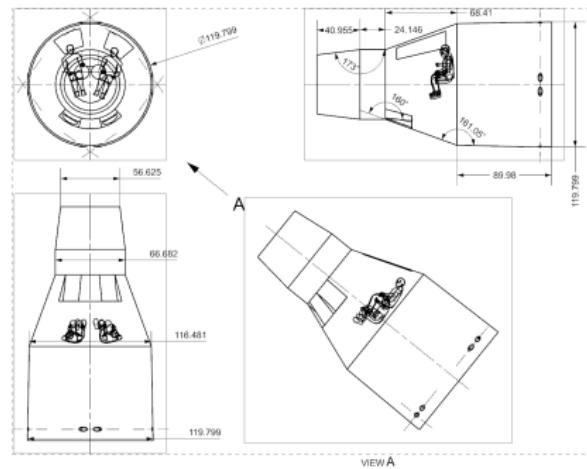
DeVince: 3 View



Hanner: Beauty Shot



Hanner: 3 View



Weinberg: Beauty Shot

YOUR
IMAGE
HERE



YOUR
IMAGE
HERE

Chun: Beauty Shot



Chun: 3 View

