

BAJA DRIVETRAIN

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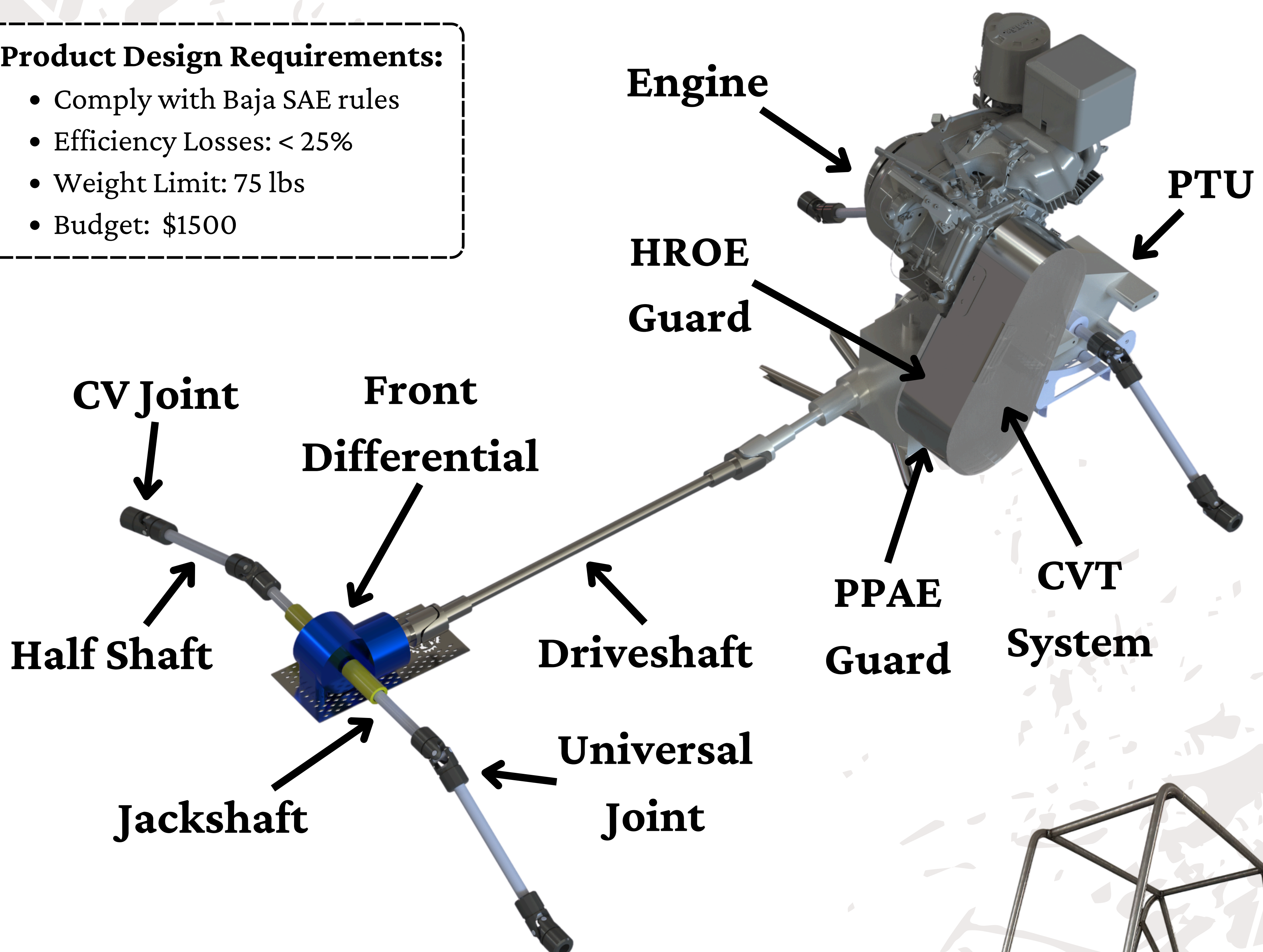
CLIENT: Wyoming Motorsports

EVENT: 2025 Baja SAE Competition

The team is developing a 4WD drivetrain for a small off-road vehicle, marking Wyoming Motorsports' return to the competition after more than a decade.

Product Design Requirements:

- Comply with Baja SAE rules
- Efficiency Losses: $< 25\%$
- Weight Limit: 75 lbs
- Budget: \$1500



Fabricated Items:

- CV Axles
- Jackshafts
- Driveshaft
- CVT Adapter
- Bearing Captures
- Mounting Provisions
- HROE and PPAE Guards

Static Testing

- Binding
- Tolerance
- Alignment

Dynamic Testing

- Drive Test
- CVT Engagement



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