

Controls Research LLC

Engineering Software Firm Frankfort, Illinois

Creator
of:



Recent Publications



BENZINGA



Contact: Paul J. Hoffman,
Email: pjhoffman@simturbo.net

Phone: (779)-390-4786

Our Team



Paul J. Hoffman, President, CEO & Founder

- BSME MIT, MSME Stanford U., MBA U of Toledo
- Over 45 years experience in Aerospace, Automotive & Power Systems

Chris Hoffman, Vice President of Sales & Marketing

- Over 15 years experience in Sales & Marketing of Technical Products

Problem

Current Gas Turbine Engine Design Tools are either:

- Too Simplistic
- Too Complex for Teaching and Learning
- Require Extensive User Construction
- Expensive



Solution:



- **Innovative Software System**
- **Graphical User Interface**
- **Intuitive Design Enhancing Learning & Creativity**
- **Rapid Synthesis, Architecting, Simulation & Analysis**
- **Excellent Presentation Features**
- **Detailed Physics, Aerodynamics, Thermodynamics, Controls are Built-In**

Solution:

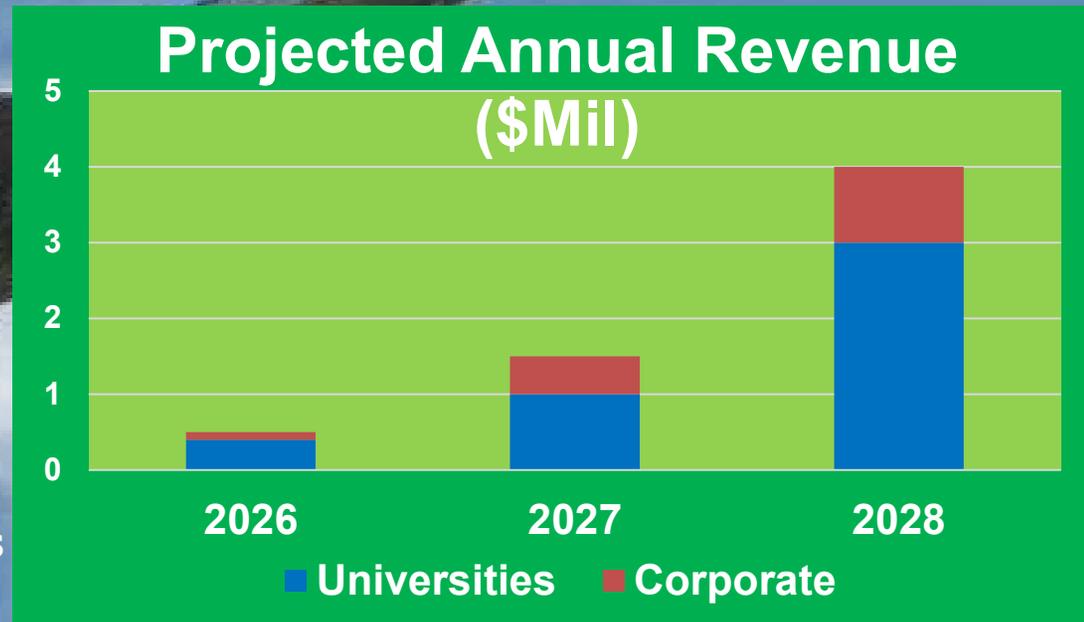


- **Large Tool-set for Aircraft Engine Design**
- **Modifiable Components**
- **Students & Professors allowed to create freely**
- **Built-in Teaching: Gas Turbine Fundamentals, Thermodynamic Cycles, Control Systems**

Market Opportunity:



- Target 150 United States Aerospace Universities & Colleges
- Approximately 8700 Students in United States Aerospace Programs
- \$350K Initial Annual Revenue
Assuming 10 percent adopt SimTurbo
- Excellent Growth Potential with Correct Marketing
- These numbers increase to 4 Times for International Market.



Product/Service:



High Level Overview:

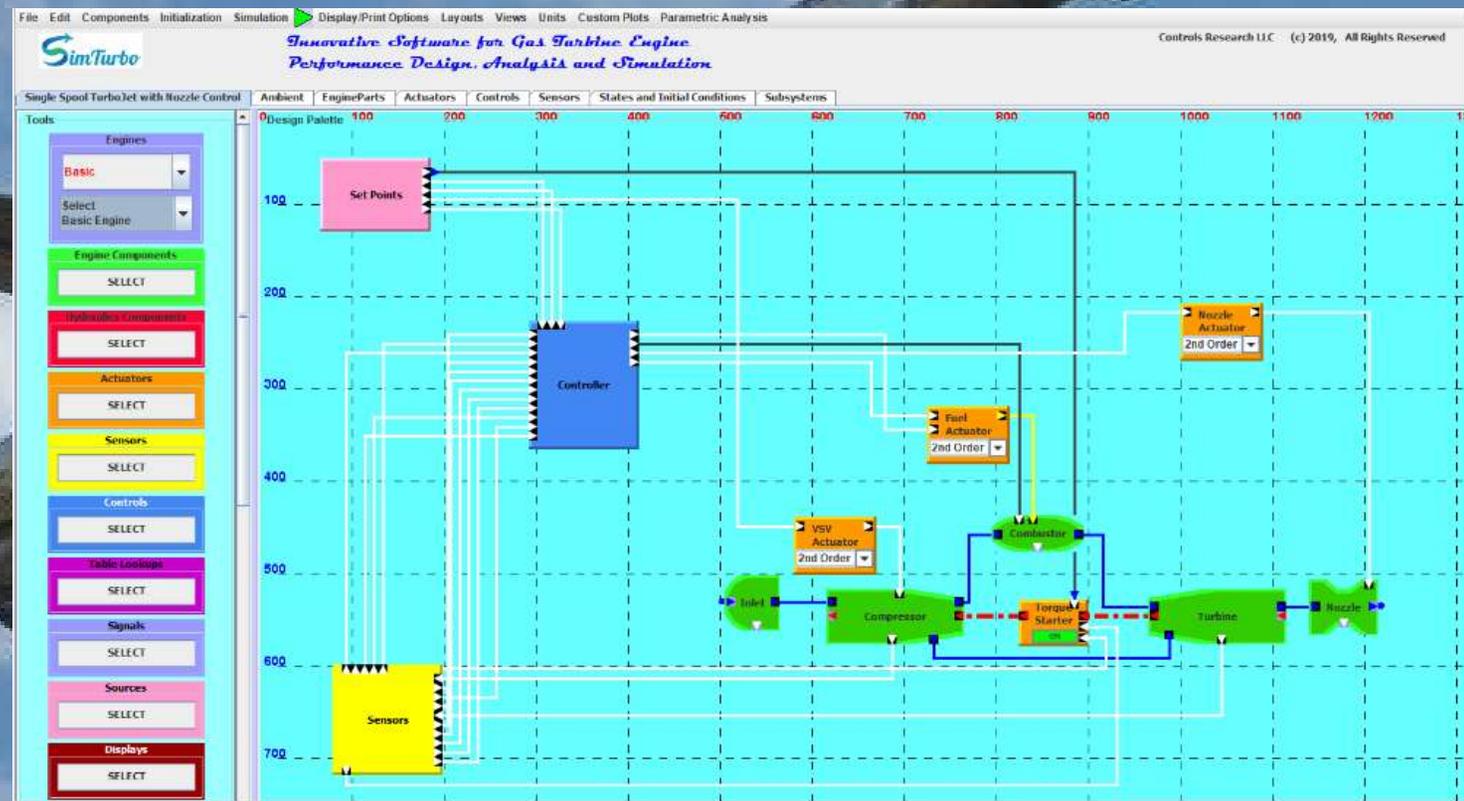
Demo Video:
<https://www.simturbo.net>

Green: Engine
Orange: Actuators
Blue: Control System
Yellow: Sensors
Pink: Set Points

Left: Tool Bar

Cyan: Palette with
Engine Design

Note: Each
Component masks
Software within.



Business Model:



- 1) SimTurbo(c) will be deployed as a set of License Options to Users:
 - a) Annual License for ~ \$400
 - b) Lifetime License for ~ \$4000
 - c) Monthly Subscription for ~ \$40With Lifetime upgrades for newly released features
- 2) Marketing: Free 30-Day Full Feature Trial License
Phone and Email Campaign to Targeted University Faculty
Technical 30 minute or more Introductory Sessions for SimTurbo(c)
- 3) Phone and Remote Video Technical Support
- 4) Consultation and Collaborative Research Opportunities

Traction:



- 1) SimTurbo(c) was developed solely and is 100% owned by the Founder, Paul Hoffman over the past ten years. Controls Research LLC has zero debt.
- 2) The first version (Turbojet Option) is complete and will be ready for sales and distribution by early November 2025.
- 3) Marketing has been introducing SimTurbo(c) to selected Universities. Demo Sessions are currently set for prominent Universities.
- 4) Anticipated Future SimTurbo(c) Options:
 - a) Power Generation
 - b) Dual Spool Turbojet
 - c) Turbofan, Turboprop

Competition:

1) Major competition for university market include:

GasTurb

GT-SUITE by Gamma Technologies

PROOSIS – Propulsion Object Oriented Simulation Software

Simulink by MathWorks



2) SimTurbo(c) provides:

- significantly less expensive than the above tools.
- More user-friendly enhancements.
- Faster design capabilities.
- Teaching tools for control systems and thermodynamics.

Funding Desired:



Total Funding Desired: \$400,000

Projected Use of Funding for 2025 and 2026:

- 1) Annual Salary for Lead Engineer: \$160,000
- 2) Annual Salary for Vice President of Sales and Marketing: \$100,000
- 3) Marketing Expenses: \$60,000
- 4) Base Operating Expenses: \$40,000
- 5) Travel Expenses to Potential Client Sites: \$40,000

Contact: Paul J. Hoffman,
Email: pjhoffman@simturbo.net

Phone: (779)-390-4786