Tyler N. Doyle
tdoyle@doylecfd.com

EDUCATION

Stanford University — Stanford, CA
Bachelor of Science in Mechanical Engineering — Sep, 1995 – Jun, 2000
Master of Science in Mechanical Engineering — Sep, 2000 - Dec, 2001
Graduate CFD Shape Optimization Research — Jan, 2001 – Nov, 2004

EXPERIENCE

Doyle Sailmakers — Salem, MA
Director of Engineering & Sail Designer — Dec 2004 – Nov 2011

- Sail design for Olympic dinghies to Mega-yachts.
- Mega-yacht sail and rig design (Maltese Falcon, Mirabella V)
- Structural membrane design & manufacture (Airships, soft buildings, air-beams)

Doyle CFD – Computational design of aero/hydrodynamic structures — Salem, MA
President — Nov 2010 - present

Recent Projects utilizing CFD/FEA analysis

- Airborne wind turbine envelope design
- Ocean current large scale hydrokinetic turbine design
- High speed mono-hull sail plan/ hull shape optimization
- Coupled aerodynamic-structural modeling 500ft sailing yacht rig
- Wing mast and partial wing mast design

SELECTED PUBLICATIONS

1. "Improving the Design of Sails Using CFD and Optimization Algorithms", High Performance Yacht Design Conference, Auckland NZ, 4-6 December, 2002.

2. "Towards sail-shape optimization of a modern clipper ship", Center for Turbulence Research Annual Research Briefs, 2002.

3. "Optimization of Yard Sectional Shape and Configuration for a Modern Clipper Ship", HISWA Conference, Amsterdam, 2002.