

Raymond A. Syms & Associates

Aeronautical Consulting Services

28 Baruch Drive, Long Branch, New Jersey 07740

Phone (732) 870-8883 Fax (732) 870-8885

www.raysyms.com

EMAIL ray@raysyms.com

Outline of Professional Experience

Raymond A. Syms & Associates provides aviation consulting and expert services based on over 40 years of aviation experience encompassing Military, Corporate, Commercial, Airline and Government operations. Management of helicopter and airplane operations, airport and heliport master planning and design, certification and construction, accident prevention, investigation and expert witness services have been performed for a large variety of organizations. Aviation qualifications include over 10,000 flying hours in both rotary and fixed-wing with multi-engine and turbine engine aircraft ratings. Those ratings are: Airline Transport Pilot (both rotary and fixed-wing); BH206 SK76; Flight Instructor in Airplanes, Helicopters and Instruments; and FAA Part 135 Chief Pilot and Instructor Pilot.

General:

Raymond A. Syms & Associates has planned, developed, operated and/or evaluated numerous aeronautical facilities and operations throughout the world. They participate extensively as an industry representative and contracted consultant in many statewide aviation and helicopter system plans. Expert aviation testimony and litigation consultation services have been provided to plaintiffs and defendants on general aviation and airline matters relating to safety, operational concerns, planning, accident prevention and investigations.

Empanelled on numerous FAA and user group committees addressing issues of aeronautical facility design, operations and safety. Contributed essential information and opinions to various federal and state regulators for the formulation and implementation of far-reaching aviation programs and regulatory reviews. Mr. Syms has been appointed Chairman of the NFPA 418 Committee which develops fire protection and life safety standards for heliports. He is also one of the most senior members of that committee having served over 20 years.

Major Publications:

- Heliport/Vertiport Development Guide – Helicopter Association International
- The “Twenty – Five Most Asked Questions and ANSWERS about Heliports/Vertiports” – Helicopter Association International
- Operational Survey – VFR Heliport Approaches & Departures – Federal Aviation Administration
- Safety Issues in Heliport/Vertiport Design – The 1990’s and Beyond

- Analysis of Helicopter Mishaps at Heliports, Airports and Unimproved Sites – Federal Aviation Administration
- Composite Profiles of Helicopter Accidents at Heliports and Airports – Federal Aviation Administration
- Published or contributed to numerous articles in ERHC News, Helicopter World, Hospital Aviation, Rotor Magazine, Rotor & Wing, Vertical Magazine

Affiliations:

Dowling College, Georgia Institute of Technology, HAI Professional Development Program. (Presentations on Heliport safety and design, wire strike prevention and flying safely in the wire environment, FAA regulations and guidelines.)

Member:

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| Aircraft Owners & Pilots Assn. | -Acoustics Committee |
| Air Traffic Control Assn. | -Fly Neighborly Committee |
| American Helicopter Society | Mid-Atlantic Helicopter Assn. |
| Aviation/Space Writers Assn. | National Fire Protection Assn. |
| Eastern Region Helicopter Council | -Chair NFPA 418 Standard for Heliports |
| -Past Publisher & Editor, ERHC News | -Chairman, Helicopter Refueling W.G. |
| -Past Chairman, Heliport Comm. | New Jersey Aviation Advisory Council |
| Expert Resources, Inc. | -Licensing and Regulator Committee |
| Expert Witness Network | Quiet Birdmen |
| FAA / Industry | Sea Plane Pilots Association |
| -Vertiport-Heliport Design Group, Vice | Technical Advisory Service for Attorney |
| Chairman-Industry | Who’s Who Registry of Global Business |
| Helicopter Association Intl. | Leaders |
| -Heliport Committee | |

Education:

SCHOOL AND LOCATION

Curriculum

United States Armed Forces Institute, Hunter AAF, GA	BA Liberal Arts
Savannah State College, Savannah, GA	BA Liberal Arts
Union County College, Union, NJ	BS Management
Rider Business College, Trenton, NJ	BS Management
Thomas Edison College, Trenton, NJ	BS Management
Middlesex County College, Edison, NJ	BS Management

- All courses were non-matriculated-GPA of 4.0-

Aeronautical Training:

SCHOOL AND LOCATION

Type of Training

Delta Airlines, Newark, NJ.	Ground Service
Basking Ridge Flight School, Basking Ridge, NJ	Aviator
US Army Airplane and Helicopter Mechanic Qualification, Ft. Rucker, AL	Mechanic
United States Army Flight Training School, Ft. Wolters, TX	Aviator
United States Army Flight Training School, Ft. Rucker, AL	Aviator
United States Army Flight Training School, Hunter AAF, GA	Flight Instructor
US Army Accident Investigation Board, Hunter AAF, GA	Investigator
Savannah Flight Service, Savannah, GA	Aviator
Allison Turbine Engine Service Training, Indianapolis, IN	Operations

Flight Safety, Republic, NY	ATP-MEL
Bell Helicopter Training School, Ft. Worth, TX	Aviator
Linden Flight School, Linden, NJ	Aviator
Aerospatiale Helicopter, Grand Prairie, TX	Aviator
American Airlines, West Palm Beach, FL	Aviator

Clients:

The following partial list of clients represents the broad cross-section of aviation and non-aviation clients that have used the services of Raymond A. Syms & Associates. (20+ clients have requested complete confidentiality and are not listed here to respect their wishes.)

- Affinity Marketing
- Ahern Fire Protection
- Air Charter Evaluations Inc.
- A.H. Butz Inc.
- Air Pegasus Corp.
- Akin Gump Strauss Hauer & Feld, LLP
- Alexandria, NJ Private Estate
- Alticor Corporation (Amway)
- Alvin Trenk
- Analar Corporation
- Andrews Kurth, LLP
- Anne Arundel Medical Center
- Anthony Blanchette
- Anthony Ferguson
- ARCO
- ARC Wheeler Corporation
- ASP Development Corporation
- Arizona State University Research Park
- Arthur Schneider
- Array Healthcare Facilities
- Atlanta Heliport
- Atlantic City Medical Center
- Atlantic Foundation
- Atlantic Aviation 34th Street Heliport
- Austin Company
- Bailey & Partners
- Bald Eagle Commons Inc.
- Baltimore Gas and Electric
- Balzarini, Carey & Watson, P.A
- Bamundo, Zwal & Schermerhorn, LLP
- Barbara Albom, Esq.
- Barnett Finance Corporation
- Bayley Seton Hospital
- Baylor Health Systems
- Baylor Grapevine Hospital
- Baylor McKinney Hospital
- Bayview Hospital
- BDG Robbins Lane
- Belfonti Associates
- Belvedere Property Management LLC
- The Bellevue
- Gordon Belfort
- BHBG Law Firm
- Blair & Sons
- Blue Hawaiian Helicopters
- Blumenfeld Development Corporation
- Boardwalk Helicopters
- Boeing Helicopter Corporation
- Borrus, Golden & Foley
- Bowers, Shuman & Welch
- Bradley Knoefler
- Brian Hart

- Brand & Brand, PA.
- Brandywine Aircraft Services
- Broadcast Helicopters Inc.
- Bristol-Meyers Corporation
- Bruce Farlow
- Byrne, Cardenas & Smitherman, LLP
- Buffalo Woman's & Children's Hospital
- Cablevision Systems Corporation
- Cannon Design, Nassau Medical Center
- Captain Steven Albers
- Carolina Health Systems
- Carolina Healthcare – Cureton
- Carolina Healthcare – Kannapolis
- Carolina Healthcare - Lincolnnton
- Carolina Healthcare - Pineville
- Carolina Healthcare - Probst
- Carolina Healthcare – Steele Creek
- Carolina Healthcare – Waxhaw
- Carolina MedCenter Air
- Cascainni LLC
- Casey, Gentz & Magness, L.L.P.
- Catawba Valley Medical Center
- C.S.C Holdings
- Central Helicopters Inc.
- Chamlin, Rosen, Cavanagh & Uliano, P.C.
- Channel 12 News, NY
- Channel 12 News, NJ
- Charles M. Young Esq.
- Charles Komar
- Chef's D' France
- Chevron Oil Corporation
- Christopher Rade Musulin, Esq.
- Cigna Corporation
- Cirque Lodge
- City & County of Denver, CO
- City of Smyrna, TN
- Clark, Depew & Seiss L.L.P.
- Craig Depew, Esq.
- Clinton Tower Service Inc.
- Cole, Scott & Kissane, P.A.
- Computer Associates, Inc.
- Continental Insurance Company
- Control Dynamics
- Cooper Hospital
- Colonial Pipeline Company
- Cononco Phillips
- Cress & Associates, Inc.
- Cruz Construction Corporation
- Cushman & Wakefield
- David Turock
- David Blumenfeld
- Davis & Davis
- Deborah S. Baird-Diamond Esq.
- Derek Cribbs
- Dialight Corporation
- Dick Pacific Construction Co.
- Doctor & Mrs. Szarko
- Doctor's Community Hospital
- Diplomat Trading
- Driscoll Oil Corporation
- Dr. Rick DeBlasi
- Duke Power Facilities
- Duke Power System
- Duke Flight Operations
- Dugan & Brown, LLP
- Eastcare Medical Program
- East Connecticut Health Network
- ECKO Limited
- Edwards & Kelcey, Inc.
- EMJ/McFarland-Johnson, Inc.
- Ensureplan, Inc
- Enzon Corp.
- Essex Enterprises LLC
- Ewing Cole Inc.
- Excel Aviation Inc.
- Executive Air Fleet
- Expert Resources Inc.
- Exxon Chemical Company
- Exxon Corporation
- Faraci, Guadagnino, Lange & Johns
- Fasken, Martineau, DuMoulin LLP
- Fairfax Hospital
- Fair Oaks Hospital
- Federal Aviation Administration
- Fightertown, U.S.A.

- Flying Tigers Inc.
- Forensic Technical Information Corp.
- Fort Saunders Medical Center
- Franzblau Dratch, PC
- Freedman Cohen Development LLC
- Freiden & Dobrinsky, PA
- Fuller, Johnson & Farrell
- Garden State Hi-Tech Park
- Gaston Memorial Hospital
- Gateway Center # 3
- Gateway/Pace Aviation
- Georgia Estate Homes, LLC
- Georgia Institute of Technology
- Gerold Brothers Builders
- Glenpointe Associates
- Goodman Associates
- Goodwyn, Mills and Cawood, Inc.
- Golden Hands Farm
- Graftwork LLC
- Greg Arnette
- Grounds for Sculpture
- Grumman Studios LLC
- GTE
- G.T. Interactive Software
- Hall's Warehouse Corp.
- Hardcore/Dupont Composites
- Harlan M. Gordon, Esquire
- Harrah's Atlantic City
- HDR Engineers
- Head of Harbor, NY Private Estate
- HealthEast/Nags Head N.C.
- Helene Fuld Medical Center
- Helicopter Association International
- Helicopter Development Assn.
- Helicopter Solutions Inc.
- Helix Helicopters-Canada
- Helo Holdings Inc.
- Heritage Minerals, Inc.
- Hewlett-Packard
- Hiscock & Barclay, LLC
- Hokie Aircraft Company
- Hovtown Corporation
- Hunter & Morton
- Illinois Department of Transportation
- International Speedway
- ISN Corporation
- Intrepid Heliport Corp.
- Jack Cayre
- Jaeckle Fleischmann & Mugal, LLP
- James R. Dugan II, Esquire
- James Gilgore
- James B Dixon
- James Sinclair
- James Schermerhorn, Esq.
- Janmar Corporation
- Jayne Valley Farm
- Jeffery L. Jacobs, Esq.
- John J. Carlin Jr. Esq.
- John Hopkins, Esq.
- John Kanas
- John Matthews, AIA
- John Mc Dougal, Esq.
- John Payton, Esq.
- John Turak
- Jones Day
- Jordan Cunningham, Esq.
- Joseph J. Brunetti Company
- Joseph Mianecki
- Justice Aviation
- Katich, Wersé & Petillo
- Kelly & Vistosky
- Kentucky Owensboro Medical Center
- Kessler, Digiovanni & Jesuele
- Keystone Helicopter Corporation
- Kimball Medical Center
- K. Hovanian Acquisitions
- K. Hovnanian Corporation
- KTR-Phelps Dodge, Indonesia
- Landye, Bennett, Blumstein LLP
- Laughlin Helicopters
- Lerner Corporation
- Leverton Associates Inc
- Liberty Helicopters, Inc.
- Lifestar Helicopter Inc.
- Linda & George Campbell
- Lomurro, Davison, Eastman & Munoz,

- P.A.
- Lowe's Home Improvement Co.
- Lowe's Wilkesboro
- Louisville Gas & Electric
- Madison Square Garden
- Mack-Cali Real Estate
- Maine Medical Center
- Mark Croce
- Mark N. Stageberg, Esq.
- Mainstreet, Inc.
- Maricopa County, AZ Assoc. of Gov.
- Matrix Development Corporation
- Maui Memorial Medical Center
- McNerney, Tom & Paula
- Medical Center of Ocean County
- Medvin & Elberg, P.A.
- Metedeconk National Golf Club
- Methodist Hospital, Philadelphia
- Mid Jersey Helicopters Ltd., Inc.
- Michael D. Parrish, Esq.
- Michael Kierman, Esq.
- Michael Selig, MD
- Miller & Gaudio, P.A.
- Mobil Oil Corporation
- Monk, Robert and Carol
- Monmouth Executive Airport
- Monmouth Medical Center
- Morristown Memorial Hospital
- Najarian Associates
- Nassau Medical Center
- Newcomb Medical Center
- Newport City Development Corp.
- Nicholas Cardwell, Esq.
- Niagara Mohawk Power Corp.
- North Arundel Medical Center
- Nurenberg, Plevin, Heller P.A.
- N.Y. City W. 30th Street Heliport
- N.Y.C. Economic Development Corp.
- Old Bahama Bay
- Omega Engineering Inc.
- ONYX Equities
- Open Wave Systems
- P.A.B. Aviation, Inc.
- Palmer Industries
- Papillion Hawaiian Helicopters Inc.
- Parker Mc Kay LLC
- Paul T. Cardillo, Esq.
- Pearl, Mississippi
- Pegasus Global Helicopters
- Pelletreau & Pelletreau, P.A.
- Perkins & Will
- Peter Kellogg
- Peter Moote, Esq.
- Philip M. Weinstein, Esq.
- Phillip Hunter, Esq.
- Pineville Medical Center
- Pitt County Memorial Hospital
- Playboy Hotel & Casino
- Plano Heart Center
- Poudre Valley Hospital
- Pratt & Whitney Corporation
- Princeton Healthcare System
- Presbyterian Medical Center
- Proctor, Davis & Ray, Inc.
- Quantrum Publications, Inc.
- Queens Health Systems
- Queen Anne Emergency Center
- Ramesh K. Menon
- Rancocas Valley Hospital
- Randal A. Wiedemann & Assoc.
- Richard A. Griefinger, Esq.
- Richard F. Hodgkins & Assoc.
- R.J. Air LLC
- Rockville General Hospital
- Robb & Robb LLC
- Robert Hall
- Robert E. Monk
- Robins Island Holdings L.L.C
- Ronald Istivan, Esq.
- Rocky Mountain Helicopter
- Ronson Aviation
- Ronson Corporation
- Roper Saint Francis Hospital
- Rorer Group, Inc.
- Rotor & Wing
- Rushmore Tramway

- RTKL Inc.
- Saint Mary's Hospital
- Sam DiFeo
- Sands, Anderson, Marks & Miller
- Saint Mary's Hospital
- Saint Agnes Hospital
- Sailfish Point Homeowners Assn.
- SAP America Inc.
- Schmittinger and Rodriguez, P.A.
- Solgar Vitamin & Herb
- St. Paul Travelers Insurance Co.
- Satellite Technology Implementation, LLC
- Siemens Airfield Solutions
- Shore Development Inc.
- Shore Healthcare System
- S.O.A.R., Inc.
- Somerset Air Service
- Sony Corporation
- South Jersey Hospital
- St. Agnes Hospital
- Saint Joseph's Healthcare System
- State of New Jersey
- State of New York
- Stephen S. Weinstein, P.C.
- Stephen Mushinski, Esq.
- Stetler & Guildin Engineering Inc.
- Steven Albers
- Steven Hafif, Esq.
- Steven J. Mianecki
- Stevenson & Ammons L.L.C.
- STIDD Systems, Inc.
- Stuart Investment Inc.
- Stefankiewicz & Barnes, P.C.
- Suburban Hospital
- Summit Associates Inc.
- Supersonic Aviation Corp.
- Synthesis Corporation
- Systems Control Technology, Inc.
- SUNY Health Science Center
- Techmeier Siegler
- Texaco Oil Company
- Temple University Hospital
- The Ultimate Companies, Inc.
- Tigert & Ligert, P.A.
- Toll Brothers, Inc.
- Toll Brothers Headquarters
- Thomson Industries Inc.
- Thomas & Paula Mc Inerney
- Thomas Holden
- Township of Warren, NJ
- Tri-Circle Development
- Trans Continental Records
- Tropicana Hotel & Casino
- Travelers Insurance Company
- Trump National Golf Club
- TSOI/Kobus & Associates
- UNISYS Corporation
- Union Memorial Hospital
- Universal Hel Air Inc.
- Universal Nissan
- University of Kansas Medical Center
- University of Maryland Trauma Center
- University of Wisconsin
- U.S. Air Force
- U.S. Army Brook Army Medical Center
- U.S. Army Corp. of Engineers
- U.S. Department of Defense
- U.S. Department of Energy
- U.S. Department of Justice
- U.S. Steel Corporation, Indiana
- United States Steel, Michigan
- United States Postal Service
- Upper Marlboro Heliport
- Upstate Medical Center
- USAA Insurance
- Vail Hospital
- Ventura Aviation
- Ventura & Thompson
- Viking Yachts Inc.
- Vincent Jesule, Esq.
- Vonage Corporation
- Voorhees Township, NJ
- V & S Corporation
- WA Golf Company LLC
- W.R. Berkley

- Wall Street Helicopters
- Walter Gezari
- Washington Adventist Hospital
- Washington D.C. Heliport
- Warren Township Planning Board
- Warren Township Council
- Waterbury Hospital
- Wheeler, Goodman, Mazek
- WGMA Inc
- Wells, Singer Rubin & Musulin, PA
- Welch Farm Inc.
- Werner Heliport LLC
- West 30th St. Heliport, NYC
- WFAA-Dallas
- Whiteweld, Barrister & Brown Inc.
- White Hall Farm
- Wings Field
- Wilson, Kehoe & Winningham, PA
- William D. Fletcher, Jr. Esq.
- William Jones III, Esq.
- Wilmont Sanz Fairfax
- Willowbend Development Corp.
- Willowbend Towers Inc.
- Women & Children's Hospital of Buffalo
- Wright Flight Aviation
- WRAL-TV
- W.R. Berkley Corporation
- W.Z. Inc.
- Zemach Sternberg
- Zurich Insurance Company