



**MICHAEL B. SMITH** ARCHITECT | PRINCIPAL  
SMITH LAROCK ARCHITECTURE P.C.



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## PROFESSIONAL BACKGROUND:

Company President Michael Smith has 27 years experience providing architectural and design work to a variety of users. His experiences over the past fifteen years include design services on over 40 process control facilities as well as many related technical / industrial building types for the petrochemical / utility / mining / pulp & paper industries across the southern United States, western Canada, China, Africa, Europe, the Middle East, and South America. He has also been involved with corporate and institutional planning; design and interiors projects; Visualization/Collaboration Centers, EOC centers and airport, commercial office and retail projects.

Michael is directly involved in the development of every project undertaken by Smith LaRock, sharing his valuable insight, skills, and knowledge of effective human factors design. His experiences in this role benefit both client and staff.

His proficiency with state-of-the-art 3D modeling opened a new and innovative graphics-based communication process in 2002 that SLA still uses today. Incorporating 3D modeling as an early design tool, rather than an end-of-the process rendering tool, the firm can exceed our customer 's communication expectations and develop a shared vision of the design solution far earlier than ever before.

On every project where this has been applied, expectations and consensus have been gained far earlier, and due to the clarity of communication, fewer changes are required during the design and subsequent construction phase of a project.

## EDUCATION:

Master of Architecture - 1987, University of New Mexico

Bachelor of Arts in Architecture - 1984, University of New Mexico

## PROFESSIONAL REGISTRATIONS:

State of West Virginia 4034	State of New Mexico 2394	National Council of Architectural Registration Boards Certified Member
State of Wyoming C 2482	State of Colorado 304248	Canadian Architectural Accreditation Board Certified Member
State of Utah 7482228-0301	State of Washington 8656	Royal Architectural Institute of Canada
State of Michigan 1301057431	State of Illinois 1019217	State of Texas 17930
State of North Dakota 1895	State of Ohio 019486	State of Louisiana 5840
State of Alaska 13055	State of Tennessee 103375	State of California C29426
	State of Indiana AR 10700054	
	Province of Alberta, Canada RA 2236	

## PERSONAL PROJECTS PORTFOLIO:

*Re: Firm Portfolio for additional projects*

**ConocoPhillips** - Ferndale, WA Refinery • 18,200 sf Refinery Operations Center

**Tesoro** - Golden Eagle Refinery, Martinez, CA • 22,400 sf Main Control Building

**Canadian Natural Resources Limited** – Ft. McMurray, Alberta • 17,000 sf Blast-resistant Control Building

**Canadian Natural Resources Limited** – Ft. McMurray, Alberta • 10,000 sf Blast-resistant Satellite Ops Centre

**Motiva Central Control Building** - Convent, LA • 27,000 sf Central Control Building

**NOVA Chemicals** –Red Deer, Alberta • 10,000 sf Renovation & 3,500 SF Control Room Addition

**Williams Gas & Liquids** - Durango, CO • 13,000 sf Blast-resistant Control / Administration Building

**Chevron YMAC ROC** - 8 Sites Worldwide • 10,000 - 50,000 +/- sf Scalable Control Center Design Concept

**OPTI-Nexen Long Lake SAGD** - Alberta, Canada • 63,000 sf Preliminary Refinery Mfg. Building Design

**Petro Canada** – Fort Hills, Alberta • 5,700 sf Bitumen Production Control Suite

**Petro Canada** – Sturgeon County, Alberta • 3,500 sf Upgrader Control Suite

**Marathon Oil Company** – Detroit, MI • 2,500 sf Central Control Center Remodel

**Husky Refining Company** – Lima, OH • 7,100 sf Central Control Suite

**Exxon** – Port Arthur, TX • 6,800 sf Fast Track Control Suite Renovation

**SECCO** – Shanghai, P.R. China • 45,000 sf Central Control Suite

**Kuwait Oil Company / Matrikon** – Kuwait • 2,000 sf Visualization Centre

**Ormat** – Galena III, Reno, NV • 3,000 sf Control Building

**Synenco NLP** – Mine Site and Upgrader, Ft. McMurray / Redwater, Alberta • 2,000 sf Conceptual Designs

**ConocoPhillips** - Ferndale, WA Refinery • 11,500 sf Laboratory Building

**Tesoro** - Golden Eagle Refinery, Martinez, CA • 72,000 sf Blast-resistant Maintenance Shop/Offices



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## PERSONAL PROJECTS PORTFOLIO (cont.):

Re: Firm Portfolio for additional projects

- Chevron** – *Hydro-processing* • 20,000 sq. ft. Renovation of Blast-Resistant Controls
  - Chevron Phillips** - *Orange, TX* • 7,670 sq. ft. Blast-Resistant Control Building
- Citgo Petroleum** - *Corpus Christi, TX* • 14,000 sq. ft. Non-Blast-Resistant Building
- Equilon** - *Bakersfield CA* • 8,000 sq. ft. Blast-Resistant Control Room Renovation
  - Honeywell** - *Phoenix, AZ* • Control Room of the Future
- Koch** - *Headquarters Concept* • 20,000 sq. ft. Bl-Res't Admin Building with Control Suite
  - Lyondell Citgo** - *Houston, TX* • 20,200 sq. ft. Blast-Resistant Control Building
- Marathon Ashland Petroleum** - *Garyville Refinery* • 14,000 sq. ft. Control Building
- Motiva Enterprises** - *Port Arthur, TX* • 3,200 sq. ft. Blast-Resistant Control Building
  - Motiva Enterprises** - *Norco, LA* • 12,200 sq. ft. Blast-Resistant Control Building
- Motiva** - *Norco, LA* • 4,500 sq. ft. DU-5 Blast-Resistant Control Building Renovation
- Nova** - *E-3* • Post Occupancy Evaluation / Document Success of ASM Best Practices
  - Occidental Chemical Company** - *Taft, LA* • 4,500 sq. ft. Analytical Lab
- Omaha Public Power** - *North Control Rooms* • Two 2,200 sq. ft. Suites
  - Petrolera** - *Hellas, Greece* • 15,000 sq. ft. Two-Story Control Building
- Petrozuata** - *Venezuela* • 5,000 sq. ft. Control Room Study & Conceptual Design
  - Shell Chemicals** - *Olefins* • 10,000 sq. ft. Control Suite
- Shell Chemicals** - *Geismar, LA* • 19,000 sq. ft. Control Building with Lab
- Shell Chemicals** – *Solvents* • 9,000 sq. ft. Blast-resistant Control Building
- Shell Chemicals** - *Phenol 2* • 5,400 sq. ft. Blast-Resistant Control Building Renovation
- U.S. Air Force Academy** - *Colorado Springs, CO* • 20,000 sq. ft. Phased Hot Cut-Over Comm Center
- U.S. Department of Defense** - *Kirtland AFB* • 18,000 sq. ft. Process Development Lab
- U.S. Department of Defense** - *Kirtland AFB* • 7500 sq. ft. Inhalation / Toxicology Lab
- U.S. Department of Energy** - *Sandia National Labs* • 8,000 sq. ft. Communications Facility
- Valero Refining** - *Texas City* • 60,000 sq. ft. Four Story Facility Design Study



CHRISTOPHER J. HEIL ARCHITECT | MANAGING ASSOCIATE  
SMITH LAROCK ARCHITECTURE P.C.



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## PROFESSIONAL BACKGROUND:

Chris Heil has over fourteen years of experience in providing Quality Assurance Analysis, Project Management, Design, Construction Document preparation and Construction Administration for a diverse range of building types.

The bulk of his experiences includes new Consolidated Control Buildings in both blast and non-blast configurations (RP-752). Other efforts range from Office Buildings and Recreational Facilities to Fire/EMS Stations and Construction Clean Rooms for the Aerospace Industry.

His efforts on Office Buildings, Logistics Control Projects, Recreational Facilities, and Fire Stations bring strong design skills, technical proficiency, and well-rounded experiences that add great value to all our projects.

Chris brings strong design skills, technical proficiency, and effective management skills that add great value to all project types. He values success in fulfilling his primary professional goal: Make every client a repeat-client.

## EDUCATION:

Bachelor of Environmental Design - Architecture & Planning, 1994, University of Colorado at Boulder

## PROFESSIONAL REGISTRATIONS:

State of Colorado 401754

## PERSONAL PROJECTS PORTFOLIO:

- ConocoPhillips** - Ferndale, WA Refinery • 18,200 sf Refinery Operations Center
- Tesoro** - Golden Eagle Refinery, Martinez, CA • 22,400 sf Main Control Building
- Canadian Natural Resources Limited** - Ft. McMurray, Alberta • 17,000 sf Blast-resistant Control Building
- Canadian Natural Resources Limited** - Ft. McMurray, Alberta • 10,000 sf Blast-resistant Satellite Ops Centre
- Motiva Central Control Building** - Convent, LA • 27,000 sf Central Control Building
- NOVA Chemicals** - Red Deer, Alberta • 10,000 sf Renovation & 3,500 SF Control Room Addition
- Williams Gas & Liquids** - Durango, CO • 13,000 sf Blast-resistant Control / Administration Building
- Chevron YMAC ROC** - 8 Sites Worldwide • 10,000 - 50,000 +/- sf Scalable Control Center Design Concept
- OPTI-Nexen Long Lake SAGD** - Alberta, Canada • 63,000 sf Preliminary Refinery Mfg. Building Design
- Petro Canada** - Fort Hills, Alberta • 5,700 sf Bitumen Production Control Suite
- Petro Canada** - Sturgeon County, Alberta • 3,500 sf Upgrader Control Suite
- Marathon Oil Company** - Detroit, MI • 2,500 sf Central Control Center Remodel
- Husky Refining Company** - Lima, OH • 7,100 sf Central Control Suite
- Exxon** - Port Arthur, TX • 6,800 sf Fast Track Control Suite Renovation
- SECCO** - Shanghai, P.R. China • 45,000 sf Central Control Suite
- Kuwait Oil Company / Matrikon** - Kuwait • 2,000 sf Visualization Centre
- Ormat** - Galena III, Reno, NV • 3,000 sf Control Building
- MeadWestvaco** - City, State • 2,000 sf Control Renovation 3D Study
- Synenco NLP** - Mine Site, Ft. McMurray, Alberta • 2,000 sf Conceptual Design
- Synenco NLP** - Upgrader, Redwater, Alberta • 2,000 sf Conceptual Design
- ConocoPhillips** - Ferndale, WA Refinery • 11,500 sf Laboratory Building
- Tesoro** - Golden Eagle Refinery, Martinez, CA • 72,000 sf Blast-resistant Maintenance Shop/Offices
- Williams Gas & Liquids** - Durango, CO • 800 sf Blast-resistant QC Laboratory Building
- Williams Gas & Liquids** - Durango, CO • 6,700 sf Warehouse Building with Blast-resistant Office



ASSOCIATE, DIRECTOR  
OF ASIAN OPERATIONS

GARY FRIEDMAN ARCHITECT |  
SMITH LAROCK ARCHITECTURE P.C.



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## PROFESSIONAL BACKGROUND:

Gary has significant experience in providing services for a diverse range of Architectural Design projects to a variety of users.

His recent Control center work includes both Renovation and Upgrade of existing Control Facilities work, as well as new Consolidated Control Room buildings in both blast and non-blast configurations (RP-752). His experience with commercial and technical facilities exemplifies his creativity, strong design skills, technical proficiency, leadership to our client's varying projects and well-rounded experiences that add great value to all our projects.

Gary derives satisfaction from the opportunity to interact with many people in different areas and cultures. The profession has afforded him the chance to travel around the country and world to participate in some very exciting and socially significant projects. He has gained insight into the culture, tradition, social structure, sense of place and community of many different people, and this has altered his approach to project work.

## EDUCATION:

Kansas State University: Master of Architecture 1981

Pennsylvania State University: B.S. Environment Behavior 1979

## PROFESSIONAL REGISTRATIONS:

Architect State of Colorado  
NCARB Certified

Architect District of Columbia  
Architect State of Maryland

## PAPERS, PUBLICATIONS AND HONORS

- DTJ Interior Office Expansion (2006 LEED-CI Gold Certification)
- Boulder Community Hospital Interior (2003 LEED-CI Silver Certification)
- Crosbie, M.J. Green Architecture: A Guide to Sustainable Design. Washington, D.C.: AIA Press, 1994.
- Fishman, J. Mysterious Buildings. Psychology Today 1985, pp 9-16.
- Friedman, G., Balling, J.T. & Valadez, J. Visual Preference for Office Buildings: A Comparison of Architects and Non-Architects. Proceedings of the Sixteenth Annual Environmental Design Research Association Conference. New York: City University of New York, 1984.
- Friedman, G. (1981) Development of a Building Image: A Study in Building Perception and Legibility.
- Levey, M. The Photography Textbook. New York: Guptill Publications, 1981.

## PERSONAL PROJECTS PORTFOLIO:

**ConocoPhillips Canada** - Surmont Multi-Purpose Building • 70,000 sf Control Suite, Administration, Emergency Services and Maintenance Facility

**Motiva Central Control b** - Port Arthur, TX • 27,000 sf Central Control Building

**Nexen Long Lake SAGD** - Alberta, Canada • 63,000 sf Preliminary Refinery Mfg. Building Design

**Sasol Synfuels**—Secunda, South Africa • 33,000 sf Gas Production Control Building

**Sasol Synfuels**—Secunda, South Africa • 33,000 sf Utilities Production Control Building

**OxyChem** – Geismar, LA • 4,500 sf Laboratory Building Renovation

**Petro Canada** – Fort Hills, Alberta • 5,700 sf Bitumen Production Control Suite

**Petro Canada** – Sturgeon County, Alberta • 3,500 sf Upgrader Control Suite

**Husky Refining Company** – Lima, OH • 7,100 sf Central Control Suite

**SECCO** – Shanghai, P.R. China • 45,000 sf Central Control Suite

**Synenco NLP** – Mine Site and Upgrader, Ft. McMurray / Redwater, Alberta • 2,000 sf Conceptual Designs

**ConocoPhillips** - Ferndale, WA Refinery • 11,500 sf Laboratory Building

**Tesoro** - Golden Eagle Refinery, Martinez, CA • 72,000 sf Blast-resistant Maintenance Shop/Offices