**Joseph A. Betz, Architect**
**Professor
Architecture and Construction Management**

Farmingdale State College – State University of New York E-mail: joseph.betz@farmingdale.edu

**Curriculum Vitae                                       *Latin translation - "the course of one's life"***

**Education**

* **Columbia University in the City of New York**, NY
Graduate School of Architecture, Planning and Preservation
Master of Science, Architecture and Building Design, 1987
*(Post-Professional Degree)*
* **Rensselaer Polytechnic Institute (RPI)**, Troy, NY
School of Architecture
Bachelor of Architecture, 1984 *(5-Year Professional Degree)*
Bachelor of Science, Building Science, 1983
*- RPI Rome (Italy) Program, 1982*

**Professional License/Certification (year attained/status)**

* Registered Architect, State of New York, No. 20214, 1989/active
* Certification, National Council of Architectural Registration Boards, No. 39198, 1990/active
* Registered Architect, State of New Jersey, No. 11501, 1991/inactive
* Licensed Architect, State of Connecticut, No. 7434, 1991/inactive

**ACADEMIC EXPERIENCE**

**Appointments**

* + **State University of New York College of Technology at Farmingdale**
	Department of Architecture & Construction Management
	- Department Chair, Jan. 2016 – June 2017
	- Professor, July 2006 - present
	- Associate Professor, Sept. 2000
	*- Tenure (Continuing Appointment) Granted Sept. 1999*
	- Assistant Professor, Sept. 1992
	+ **The Research Foundation of State University of New York**
	Various research projects, 1996 - present
	+ **Suffolk County Community College**, Selden, NY
	Department of Construction Technology
	- Adjunct Assistant Professor, January 1991 - May 1992

**Awards/Honors (teaching/scholarship/service)**

* + SUNY Chancellor's Award for Excellence in Teaching, 2000
	+ American Society for Engineering Education (ASEE) Best Zone I Paper in the National Best Paper Competition, 2004*(Zone I represents Middle Atlantic, New England & St. Lawrence Regions - I of IV regions in the country)*
	+ Outstanding Service Award from ASEE Architectural Engineering Division for Program Chair 2003-05
	+ Certificate of Appreciation for Service on the Planning Board by resolution of the Town of Brookhaven, 2015.
	+ Inducted as Honorary Member of the Golden Key International Honour Society (student nomination by Ms. Juana De Las Mercedes Pena,  VP of the Farmingdale State Chapter), 2015
	+ Farmingdale State College Presidential CARES Award with Stipend (Commendation And Recognition for Exceptional Service), 2016

**Administrative Responsibilities/Experience**

* + Administrative responsibilities: leadership, evaluations, observations, recommendations, mentorship, faculty development, time certification, review and supervisor oversight
	+ Staffing size: 7 Full-time Faculty, 11 adjunct faculty, 2 staff
	+ Degree Programs: 2 BS degrees, 1 new MS degree, 1 pending BS degree, additional graduate and undergraduate degrees planned
	+ Student size: 285-300 students, advisement and graduation certification
	+ ETAC/ABET Accreditation, Provost’s Annual Assessment Report, SWOT Analysis
	+ Budgeting: Dept. OTPS, Course/Lab fees, UHS IRF, Tech. fee, Strategic Planning & Budgeting
	+ Course scheduling, faculty assignments, adjunct selection, staffing assessment reports,
	+ New faculty hiring search (includes advertisement, credentials, salary)
	+ Student recruitment, transfer credit assessment, University in the HS program
	+ Community College transfer articulation agreements, HS articulations agreements
	+ Industry partnerships, internships and Industry Advisory Board appointments
	+ New degree program assessment, development and implementation
	+ Student scholarship selection, awards, graduate school recommendations
	+ Grant proposal evaluations, scholarship standards, scholarly activity funding
	+ The Department has produced 2 Student Fulbright Fellowship / Scholarship recipients in the past 6 years and is the home of a NYS $6.6 Million Infrastructure, Transportation and Security Center established in 2016

**Areas of Teaching Experience/Expertise**

* + Architectural Design: methodology, aesthetics, criticism, heuristics
	+ Architectural Theory: modern and post-modern theory and philosophy
	+ Architectural History: Western European and American
	+ Architectural Technology: systems theory, technological determinism
	+ Construction Design Development, Materials & Methods, Sustainability & Green Building
	+ Pedagogy (process learning: design, writing, student peer review, continuous improvement)

**Grant Projects**

* + Major Collaborative Proposal: Understanding the Creative Design Process: A Novel Cognitive Model based on Behavioral Experiments in Circuit Design and Architecture, 2009-2014 - $257,376: Alexa Doboli & Joseph Betz *Funded by the National Science Foundation under Grant IIS- 0856038*
	Co-Principal Investigator - SUNY Farmingdale (sub-award to SUNY Stony Brook)
	+ Sensor Consortium - A Consortium for Security and Medical Sensor Systems, 2002-2005
	*Funded by the National Science Foundation under Grant EEC-0332605*
	Project Coordinator / Campus PI - SUNY Farmingdale (sub-award to SUNY Stony Brook)
	+ Creative Crane Student Competition, 1999-2002
	*Funded by Computer Associates and Symbol Technologies*
	Principal Investigator and Project Developer (Project included 25 LI School Districts participating and 6 Upstate School Districts)
	+ Collegiate Science and Technology Entry Program (CSTEP), 2000-2003
	*Funded by the New York State Education Department*
	Faculty Instructor/Advisor/Mentor
	+ Long Island Consortium for Interconnected Learning, 1997-1998
	*Funded by the National Science Foundation under Grant 9555401*(sub-award to SUNY Stony Brook)
	Project Personnel (Faculty) to Project *ICON*
	+ Project TOOLKIT, 1996-1998
	*Funded by the New York State Education Department; Title II Dwight David Eisenhower Professional Development Grant*
	Faculty Instructor
	+ Numerous UUP Faculty Development Awards for travel and research

**Publications (papers and articles)**

* + Doboli, A., Umbarkar, A., Doboli, S., Betz, J., "Modeling Semantic Knowledge Structures for Creative Problem Solving: Studies on Expressing Concepts, Categories, Associations, Goals and Context," Journal of Knowledge-Based Systems, Volume 78, pp 34-50, April 2015.
	+ Betz, Joseph A., "Heuristic Models for Creativity Experiments in Architectural and Engineering Design," Proceedings of American Society for Engineering Education (ASEE) Regional Conference, Farmingdale, New York, April 2011.
	+ Betz, Joseph A., "Motivating Students to Learn More: a case study in Architectural Education," Proceedings of American Society for Engineering Education (ASEE) Annual Conference, Louisville, Kentucky, June 2010.
	+ Betz, Joseph A., "Assessing Creativity in Architectural Design: evidence for using student peer review in the studio as an assessment tool," Proceedings of American Society for Engineering Education (ASEE) Annual Conference, Austin, Texas, June 2009.
	+ Betz, Joseph A. and Pfeifer, Chelsie, "Social Networking Spaces: a case for learning beyond the classroom with appropriate boundaries," Proceedings of American Society for Engineering Education (ASEE) Northeast Section Conference, Bridgeport, Connecticut, April 2009.
	+ Luryi, S., Tang, W., Lifshitz, N., Wolf, G., Daboli, S., Betz, J., Maritato, P., Shamash, Y., "Entrepreneurship in Engineering Education," Proceedings of Frontiers in Education (FIE) Conference, Milwaukee, Wisconsin, October 2007.
	+ Betz, Joseph A., "Independent Student Design Competitions and the Assessment Dilemma," Proceedings of American Society for Engineering Education (ASEE) Annual Conference, Honolulu, Hawaii, June 2007.
	+ Luryi, S., Tang, W., Lifshitz, N., Shamash, Y., Wolf, G., Betz, J., Daboli, S., Maritato, P., "Introducing Entrepreneurship in Engineering Education," IEEE Journal of Education (in review).
	+ Betz, Joseph A., "The Effects of Computer Automation on the Design Development Process in Architecture," Proceedings of American Society for Engineering Education (ASEE) Annual Conference, Chicago, Illinois, June 2006.
	+ Betz, Joseph A., "Writing in the Discipline: A case study for Architectural Engineering," Proceedings of American Society for Engineering Education (ASEE) Annual Conference, Portland, Oregon, June 2005.
	+ Betz, Joseph A., "Copy, Insert and Automate in the Design Process: Where's the Thinking and Learning?" Proceedings of American Society for Engineering Education (ASEE) Conference for Industry and Education Collaboration, Savannah, Georgia, February 2005.
	+ Betz, J., Dathatri, Y., Elgun, Z., Issapour, M., "A Forecasting Tool for Future Course Development: a case study using Industry-Sponsored Workshops to assess need," Proceedings of American Society for Engineering Education (ASEE) Conference for Industry and Education Collaboration, Savannah, Georgia, February 2005.
	+ Betz, Joseph A., "Peer Review Plus: A Case for Combining Architectural Design Studios Earlier," Proceedings of American Society for Engineering Education (ASEE) Annual Conference, Salt Lake City, Utah, June 2004.
	+ Betz, Joseph A., Revised Edition, "Design Competitions as Tools for Change in Secondary (9-12) Technology Education: A Regional Case Study," Proceedings of American Society for Engineering Education (ASEE) Annual Conference, Salt Lake City, Utah, June 2004. (Competed in Best National Zone Paper Division)
	+ Betz, Joseph A., "Design Automation: a forecast for the architectural profession," Hammer Magazine, 8:10, p. 27-28, October 2003.
	+ Betz, Joseph A., "Epistemology, Technology and Organization: the affects of change in architectural design," Proceedings of American Society for Engineering Education (ASEE) Annual Conference, Nashville, Tenn., June 2003.
	+ Betz, Joseph A., "Automation Takes Command: toward a design typology," Proceedings of American Society for Engineering Education (ASEE) Spring Regional Conference, Kean University, April 2003.
	+ Betz, Joseph A., "Design Competitions as Tools for Change in Secondary (9-12) Technology Education: A Regional Case Study," Proceedings of American Society for Engineering Education (ASEE) Fall Regional Conference, Manhattan College, October 2002. (Received the ASEE Best Zone I Paper Representative Honor, 2004)
	+ Betz, Joseph A., "First Impressions of the International Building Code for New York State, "Hammer Magazine, 7:1, p. 25-26, January 2002.
	+ Betz, Joseph A., "High School Design Competitions and ASEE Regional Conferences: Preliminary Data from the Competition held at the spring 2000 Mid Atlantic Conference," Proceedings of American Society for Engineering Education (ASEE) Fall Regional Conference, C.U.N.Y. College of Staten Island, November 2001.
	+ Betz, Joseph A., "Student Internet Portfolios: a technological tool for change in the classroom," Proceedings of American Society for Engineering Education (ASEE) Fall Regional Conference, Penn State, Capital College, November 1999, pp. 33-38.
	+ Betz, Joseph A. and Rhoades, Jeffery P., "Information Technology and On-line Internet Services: A Prescription for Building Departments," Hammer Magazine, 4:9, pp. 26-27, September 1999. (Data presented from Jeffery P. Rhoades Senior Project, J. Betz Faculty Advisor)
	+ Betz, Joseph A., "Constructing Cooperative Learning Systems in Engineering Technology, "Journal of Educational Technology Systems, 25:2, pp. 97-108, 1996-1997
	+ Betz, Joseph A., "Constructing Cooperative Whole Systems Learning in Construction & Architectural Engineering Technology," Proceedings of the Conference on Instructional Technologies, SUNY Oswego, NY, June 1996, pp. 6-11.
	+ Betz, Joseph A., "Using CD-ROM Technology to Increase Productivity," Hammer Magazine, pp. 15-16, March 1996.
	+ Betz, Joseph A., "Computer Games: Increase Learning in an Interactive Multidisciplinary Environment," Journal of Educational Technology Systems, 24:2, pp.195-205, 1995-1996
	+ Betz, Joseph A., "Computer Games: Increase Learning & Thinking Using Interactive Whole Systems," Proceedings of the Conference on Instructional Technologies, SUNY Utica/Rome NY, June 1995, pp. 14-17.
	+ Betz, Joseph A., "Computer Games: Learning Tools in Engineering & Technology Education," Proceedings of American Society for Engineering Education (ASEE) Fall Regional Conference, Hofstra University, November 1994, pp. 19-24.

**Recent Presentations (sample)**

* + Betz, J, “The Genealogy of Historical Architectural Styles in the Three Villages:
	*Rationalism, Romanticism and the Vernacular,*” Presentation at the Emma Clark Library sponsored by the *Three Village Civic Association & Three Village Historical Society*, April 2019.
	+ Betz, J, "Student Centered Learning through Peer Evaluation," Presentation at New Faculty Teaching Seminar, SUNY Farmingdale, NY, April 2009.
	+ Betz, J., Pfeifer, C., Kennedy, C., Bandyopadhyay, A., Moisa, C., "Learning on Their Own: Student Peer Review in Writing Intensive Courses," Presentation at Writing in the Disciplines Luncheon Forum, SUNY Farmingdale, NY, December 2008.
	+ Betz, Joseph A., "Peer Review: How Students Learn from Each Other and How We Learn from Students," Presentation at Writing in the Disciplines Luncheon Forum 4, SUNY Farmingdale, NY, February 2006.
	+ Betz, Joseph A., "Genealogical Resources & Citations in the Information Age," Spring 2005 Program Series, Presentation at the Emma Clark Library, Setauket, NY, May 2005.
	+ Betz, Joseph A., and Gelles, Karen "Farmingdale State University: 90 Years of Campus Architecture," Presentation at Distinguished Speakers Program, SUNY Farmingdale, NY, October 2004.
	+ Betz, Joseph A., "On-line Evaluation & Data Collection Surveys: A Pedagogical Tool for the Classroom and Beyond," Presentation at Conference on "Teaching Through Technology", Center for Excellence in Learning & Teaching (CELT), SUNY Farmingdale, NY, February 2002.
	+ Betz, Joseph A., “Creative Crane Competition: an integrated MST learning project,” Presentation at the Nassau and Suffolk Technology Education Association Annual Joint Conference, SUNY Farmingdale, November 2000
	+ Betz, Joseph A., "Student Web Portfolios: A New Learning Environment," Presentation at 36th Annual Conference of the New York State Technology Education Association, Syracuse, NY, on April 1999. Supported by Project TOOLKIT (through a NYS Education Department grant).
	+ Betz, Joseph A., "Genealogy in the Computer Information Technology Age: A High Tech Data Collection and Management Game," Key Note Speaker - Presentation at Annual Installation Dinner of the Long Island Chapter, Sons of the American Revolution, Stony Brook, NY, April 1999.
	+ Betz, Joseph A., "Course Outlines and High Tech Filing Cabinets: A Case of Integrating the INTERNET in the Classroom," Presentation at Conference on Instructional Technology, SUNY Farmingdale, NY, April 1998.
	+ Betz, Joseph A., "Forms of Information and Communication on the Internet: Toward Constructing a Learning Environment," Presentation at the New York State Engineering Technology Association (NYSETA) Fall Conference, SUNY Farmingdale, NY, October 1997.

**External Peer Review (past few years only)**

* + Program Chair & Proceedings Editor, Architectural Engineering Division, ASEE Annual Conference and Exposition, 2003-05
	+ Paper Reviewer, ASEE Annual Conference and Exposition, 2002-2014
	+ Peer reviewer for faculty tenure, promotion and grant applications (other institutions)

**Student Club Faculty Advisor**

* + Architectural Construction Technology (ACT) Club Advisor, 1992-2017
	+ 2005-2006 AIRPORT.SECURITY.CIRCULATION International Student Design Competition -U.S. Department of Homeland Security and the Association of Collegiate Schools of Architecture
	+ 2007 Just Jerusalem Student Design Competition
	+ 2008-2009 Hydrogen Student Design Contest

**Public Service**

* + Town of Brookhaven, Historic District Advisory Committee, 11/2018 - present
	+ Town of Brookhaven, Planning Board member, 3/2012 - 1/2015
	+ Frank Melville Memorial Park Setauket Post Office Student Re-Design Project 2012
	+ Three Village (Stony Brook and the Setaukets) Civic Association, Executive Board member, 2008 - present

**External Program Advisory Committee**

* + Suffolk County Community College, Construction Technology AAS Program
	+ Suffolk County Community College, Drafting Certificate Program

**National Society Service / Elected Office**

* + American Society for Engineering Education (ASEE), Architectural Engineering Division Past Chair (Board Member), 2007-09
	+ American Society for Engineering Education (ASEE), Architectural Engineering Division Chair, 2005-07
	+ American Society for Engineering Education (ASEE), Architectural Engineering Program Chair & Proceedings Editor, 2003-05

**College Committees (Current)**

* + Continuing and Term Appointment (Tenure) Committee, *(past Chair)*

**PROFESSIONAL EXPERIENCE**

* + **Joseph A. Betz, Architect**, Stony Brook, NY - Principal, 01/02 – 12/15
	+ **Smits & Betz Architects**, Farmingdale, NY - Partner, 3/96 - 12/01
	+ **Joseph Alexander Betz, Architect**, Stony Brook, NY - Principal, 12/89 - 3/96
	+ **Lester E. Siems Architect**, East Islip, NY - Associate, 5/87 - 2/90
	+ **Architecture East**, Shoreham, NY - Project Manager, 11/85 - 9/86
	+ **Wiedersum Associates, P.C.,** Hauppauge, NY - Job Captain, 8/84 - 10/85
	+ **Skyline Detailers, Inc.,** Smithtown, NY - Structural Steel Detailer, 3/78 - 8/84