

# Daniel J. Sturtevant

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## EDUCATION

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**Massachusetts Institute of Technology**, Cambridge, MA  
**School of Engineering and Sloan School of Management**  
Doctor of Philosophy in Engineering Systems **Expected 2011**  
Master of Science in Engineering and Management **2008**  
Systems Design and Management Fellow

**Lehigh University**, Bethlehem, PA  
Bachelor of Science in Computer Engineering, *Cum Laude* **2001**  
Bachelor of Arts in Political Science, *Cum Laude*, Departmental Honors **2000**  
School of Engineering Dean's Scholarship, a four-year academic award

## EXPERIENCE

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**Independent Consultant, Multiple Clients** **2007-present**  
**Boeing**

- Initiate partnership to study impending capability crisis in America's science and tech labor force.
- Create system dynamics model to explain why number of American engineering graduates has dropped off over 25 years despite salaries that are highest of any profession.
- Involve stakeholders from industry, academia, K-12 education, and government around model-centric initiative to further study problem, analyze potential solutions, and advocate for change.

**BAE Intelligence Innovation Division**

- Model intelligence community problems for IARPA using agent-based techniques.

**Developer, The MathWorks**, Natick, MA **2005-2007**

- Introduced and managed a project that reduced primary bottleneck in development process by 90%.
- Improved overall productivity of C++ developers by 30%
- Designed and implemented features that enable component reuse in MATLAB Simulink models, saving significant time and effort for Toyota and other automotive or aerospace customers.

**Senior Software Engineer, General Dynamics AIS**, Arlington, VA **2003-2005**

- Developed a prototype cryptographic software system for intelligence community that prevents theft of classified information by sophisticated "insiders."
- Invented a workable hardware version of this architecture that earned team one million dollars of internal research & development funding.
- Received venture capital funding for commercialization of this technology.
- Reverse engineered SunPCi III card running under Solaris UNIX and wrote Linux device drivers.

**Software Engineer, Paralogic, Inc.**, Bethlehem, PA **2000-2002**

- Developed Linux-based supercomputing software and physically built machines with up to 600 processors to be used primarily for computational fluid dynamics modeling.
- Expanded potential market size of product by initiating a partnership with Sun Microsystems and leading an integration effort to meet needs of rapidly expanding bio-informatics market.
- Trained system users at industry, academic, and national lab sites.

## LEADERSHIP, AWARDS, PATENTS, CLEARANCES

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Research and Teaching Assistant in System Architecture **2008**

Gold Medal in MIT-SDM Technology Strategy Competition **2007**

Led 6<sup>th</sup> place team (of 343) in "Red Hat Challenge" Business Strategy Competition **2007**

"Award for Outstanding Technical Contributions" at General Dynamics **2004**

Patents: New patents and extensions to US Patent 5,933,498 currently under review.

Clearance: Top Secret