

**Theodore Ahrens Professor in Engineering**
[Mechanical Engineering \(Carnegie Institute of Technology\)](#)

Courtesy Appointment:

[Biomedical Engineering \(Carnegie Institute of Technology\)](#),

[Civil and Environmental Engineering \(Carnegie Institute of Technology\)](#),

[The Robotics Institute \(School of Computer Science\)](#), and

[Institute for Complex Engineering Systems](#) of

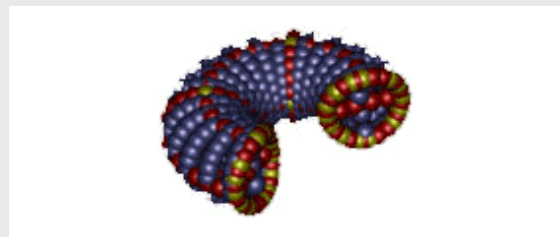
[Carnegie Mellon University](#)
Director of Computational Engineering and Robotics Lab (CERLAB)**President and CEO of CIESPACE Corporation**[[Professor Shimada's weekly schedule in this semester](#)][[Directions to Professor Shimada's office and lab](#)]What's new: [CERLAB Back-to-School Party 2007 Pictures](#)**Contact Information**

Mechanical Engineering
Carnegie Mellon University
5000 Forbes Avenue
Pittsburgh, PA 15213, U.S.A.
shimada @ cmu.edu
Office: 314, Scaife Hall
Phone: 412.268.3614
Fax: 412.268.3348
eFax: 509.463.7619
Cell: 412.952.5990

Administrative assistant:
Ms. Nancy Beatty
Room 316, Scaife Hall
Phone: 412.268.2908
nbeatty @ andrew.cmu.edu

**Research Interests**

- Geometric modeling and simulation
- Mesh generation
- Computer graphics
- Computational Geometry
- Robotics
- Factory Automation
- Robotic Surgery
- CAD/CAM/CAE
- Human modeling and simulation.

**Teaching**
[24-384/789: Computer-Aided Design](#)
[24-381/700A: Computational Engineering](#)
[FEM/ANSYS self-paced web tutorial](#)
[24-786: Geometric Modeling](#)
[24-311: Numerical Methods](#)
[Solidworks self-paced web tutorial](#)
[Mathcad self-paced web tutorial](#)
[24-384A: Computational Geometry](#)
[24-703: Numerical Methods in Mechanical Engineering](#)