I Can Work Where?
Electronic Arts, Google, Facebook, GE, Microsoft, Amazon and Zillow are just a few of the companies where our software engineering graduates have started their careers.

Battle of the Brains
Student programming teams have advanced to the world finals of the ACM Intercollegiate Programming Competition five times in the past 15 years.

Theory and Practice
Students learn not only about practical aspects but rigorous formal and theoretical concepts that lead to a well rounded education in software engineering.

Software engineering is a systematic, disciplined, measurable approach to building and maintaining software. Programming is a key component of the discipline, but it is not the whole story. Starting with thorough preparation in mathematics, computer science and computer organization, software engineering students learn how to successfully implement and manage the development, maintenance and evolution of software products.

Why Software Engineering at Florida Tech?
When it comes to the study of software engineering—a rigorous and challenging field—the benefits of small classes and concerned and available faculty cannot be overstated. At Florida Tech, professors who care about your success will make time to help, advise and guide you as you pursue your passion. Another benefit to choosing Florida Tech is the exciting research being done by our faculty, and the opportunities that come as a result. Our professors involve students in projects related to machine learning, computer vision, biologically inspired computing, data mining, cybersecurity, cryptography, speech recognition and more. If you want an immersive, hands-on experience in an active environment, Florida Tech is the place.

Your First-Year Experience
In the first year, software engineering students learn the fundamentals of algorithmic thinking and gain the ability to express solutions to problems using computer programming languages. In other words, you begin doing software engineering on day one. First-year courses give you a foundation in software development and cover computer organization (how computers are controlled at the machine level). You also take a seminar in software engineering disciplines and careers, which will help you hone your interests and map your path to success.

QUICK FACTS
- The Bachelor of Science degree in Software Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.
- High-achieving students may become members in Upsilon Pi Epsilon, the international honor society for the computing and information disciplines.
- We are home to the Harris Institute for Assured Information, an interdisciplinary center devoted to cutting-edge research in computer security and information protection.
Software Engineering

Nearly every system in modern society is driven by software. Software engineers work on everything from ATMs to automobiles, from tablet computers to the Large Hadron Collider.

What to Expect
As a software engineering student at Florida Tech, you can expect to find professors who will get to know you and actively help you to succeed, as well as a tight-knit community of peers. The program is rigorous, so you should also expect enriching challenges along the way.

Facilities & Labs
Several state-of-the-art computing laboratories and a full suite of software development tools are freely available to all software engineering students. A number of special purpose laboratories, such as the software evolution lab, are available to students doing advanced caliber research as well.

Careers
Students who graduate with a degree in software engineering find work in all sectors of the economy. Graduates of Florida Tech’s software engineering program have gone on to work for:
- Electronic Arts
- Amazon
- General Electric
- Harris Corporation
- Microsoft
- Zillow
- NSA
- Google
- Facebook

Graduate Study
Graduates of the software engineering program at Florida Tech are prepared to pursue advanced degrees in computer science and related fields and have gone on to study at graduate schools such as:
- Brown University
- Carnegie Mellon University
- Georgia Institute of Technology
- Johns Hopkins University
- UC Berkeley
- UCLA
- University of Florida
- University of Washington

Known for Engineering
Florida Tech is listed among the Fiske Guide’s “Engineering/Top Technical Institutes” and Parade Magazine’s College A-List in Engineering.

Senior Design
As seniors, all software engineering students complete a capstone project that challenges them to design, develop, program and present a novel software application.

Highest Tech
Students learn about supercomputers and develop high-performance applications using our Blueshark HPC cluster (a 576 processor core IBM system).

Getting Involved
We offer an active student chapter of the Association for Computing Machinery, which offers professional development and ample opportunity to make new friends.

Faculty Research Areas
The software engineering faculty are all active and internationally known researchers with interests that span the field. These include:
- computer security, malicious code and information protection
- software product architecture and design
- software testing, process improvement and quality assurance
- software maintenance and evolution
- secure software development

Well-qualified students are often invited (and sometimes fought over!) to join professors’ research teams, doing level-appropriate work.

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