

Corporate Backgrounder

Fall 2019

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Synopsys Overview and History

Synopsys, Inc. (Nasdaq: SNPS) is the Silicon to Software™ partner for innovative companies developing the electronic products and software applications we rely on every day. As the world’s 15th largest software company, Synopsys has a long history of being a global leader in electronic design automation (EDA) and semiconductor IP, and is also growing its leadership in software security and quality solutions. Whether you’re a system-on-chip (SoC) designer creating advanced semiconductors or a software developer writing applications that require the highest security and quality, Synopsys has the solutions needed to deliver innovative, high-quality, secure products.

Company Founded:	1986	Headquarters:	690 East Middlefield Rd. Mountain View, CA 94043
Revenue Q3 FY 2019:	\$853.0 million*	Locations:	120 offices worldwide in North America, Europe, Japan, the Pacific Rim, India, and Israel
Revenue for FY 2018:	\$3.121 billion**		
Employees:	13,854***	Contact:	(650) 584-5000 www.synopsys.com

* 9% growth over third quarter of Fiscal Year 2018

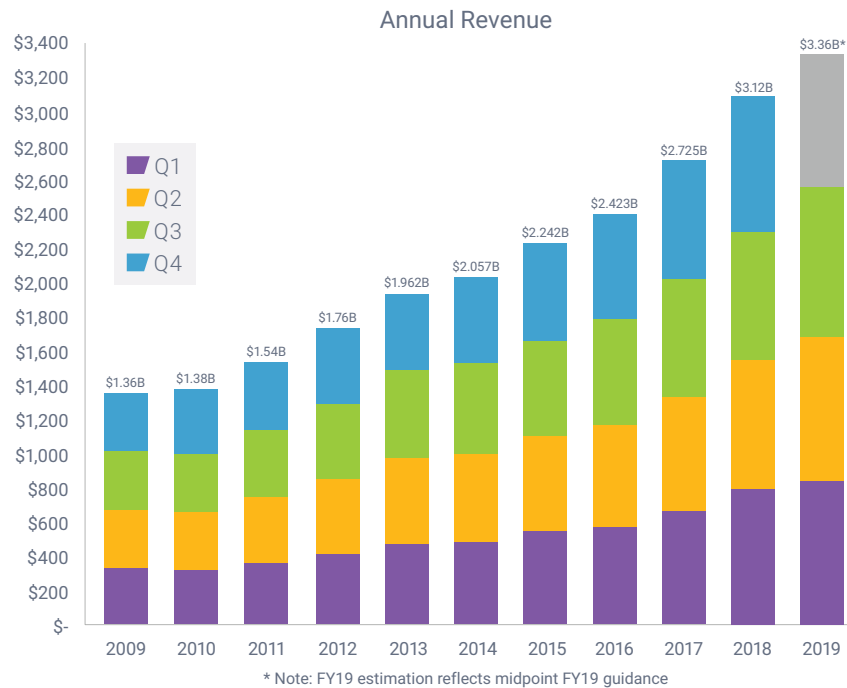
** 15% growth over Fiscal Year 2017

*** Total employees worldwide as reported for third quarter Fiscal Year 2019

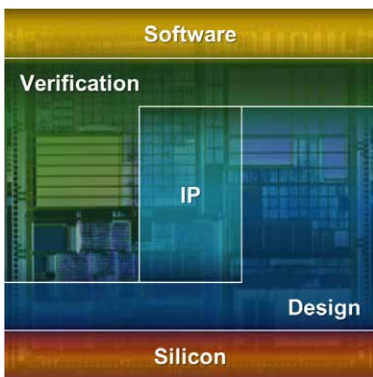
Financial Information

Synopsys stock has traded on the Nasdaq Stock Exchange under the symbol "SNPS" since the company's initial public offering in 1992. Recent fiscal results are as follows

- Revenue Q3 Fiscal Year 2019: \$853.0 million; 9% growth over third quarter of Fiscal Year 2018
- Revenue Fiscal Year 2018: \$3.121 billion; 15% growth over Fiscal Year 2017
- Estimated revenue for Fiscal Year 2019: \$3.36 billion



Strategic Acquisitions



SOFTWARE

- 2017 Black Duck
- 2016 Cigital
- 2015 Codenomicon
- 2014 Coverity

VERIFICATION & PROTOTYPING

- 2015 Atrenta
- 2012 EVE
- 2012 SpringSoft
- 2008 Synplicity
- 1997 Viewlogic
- 1994 Logic Modeling

IP

- 2010 Virage Logic
- 2002 inSilicon

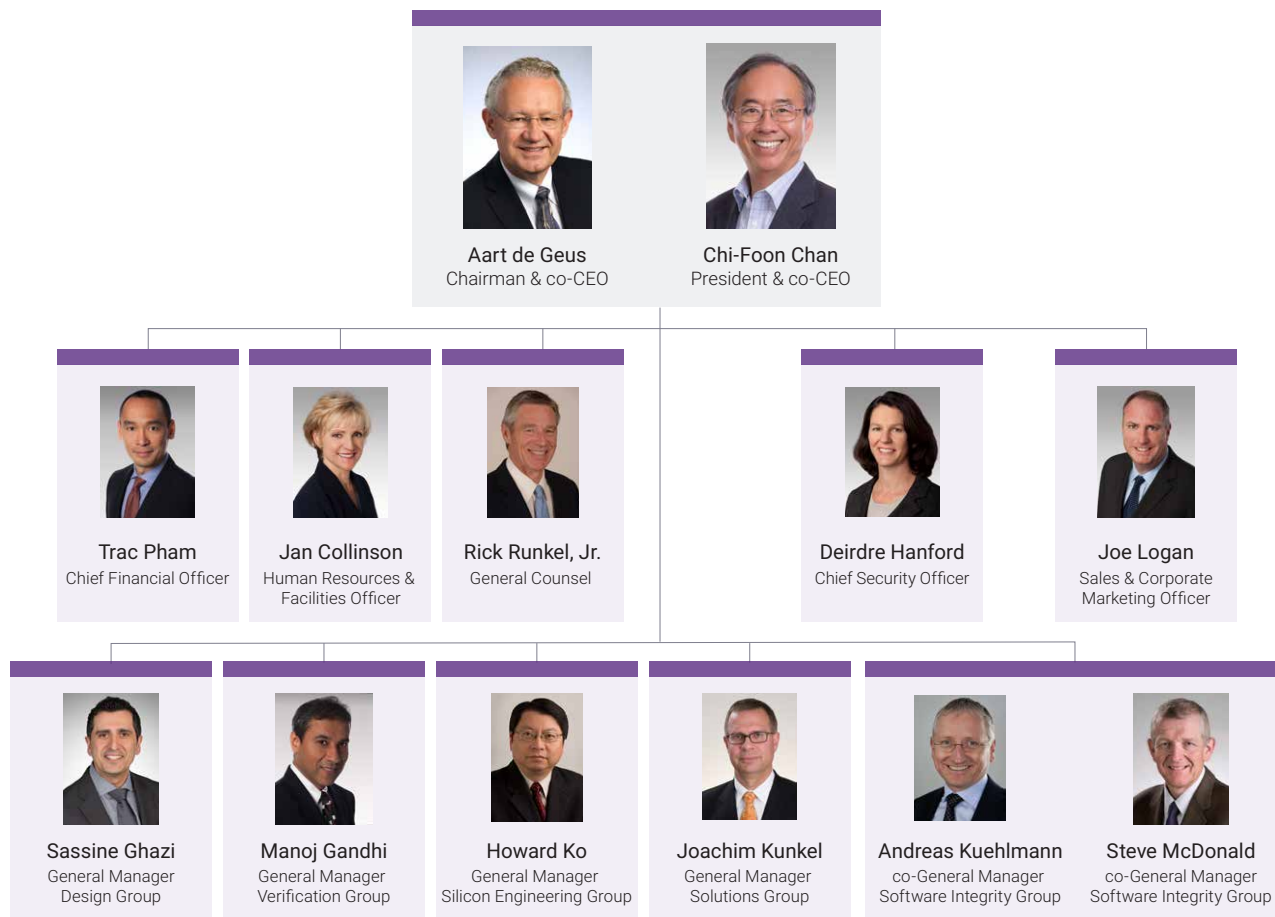
DESIGN

- 2012 Magma
- 2002 Avanti
- 1997 EPIC

SILICON ENGINEERING

- 2012 Mask synthesis technology
*from Luminescent Technologies
- 2010 Optical Research
- 2003 Numerical Technologies

Management Team



The company’s executive management team is comprised of leaders with diverse global backgrounds and many decades of combined semiconductor industry experience. The tremendous “know how” they bring to Synopsys has helped the company become its industry leader.

Industry-Leading Solutions, from Silicon to Software

Synopsys technology is at the heart of innovations that are changing the way we work and play. Autonomous vehicles. Artificial intelligence. The cloud. 5G. These breakthroughs are ushering in the era of Smart, Secure Everything—where devices are getting smarter, everything’s connected, and everything must be secure.

Powering this new era of digital innovation are advanced silicon chips and exponentially growing amounts of software content—all working together, smartly and securely. Synopsys is at the forefront of Smart, Secure Everything with the world’s most advanced technologies for chip design and software security and quality testing. We help our customers innovate from silicon to software so they can deliver Smart, Secure Everything.

Build the Best Chips, Faster

Synopsys is the world’s leading provider of solutions for designing and verifying advanced silicon chips, and for designing the next-

generation processes and models required to manufacture those chips. Our design technologies maximize productivity and ensure the best quality of results while optimizing chips for power, performance, and cost. Our verification technologies cut months off project schedules by enabling the verification of complex chips together with software, faster. We help customers find system-level bugs earlier and faster, bring-up software sooner, and validate their entire system.

Integrate More Capabilities, Faster

Synopsys offers the world's broadest portfolio of silicon IP—pre-designed blocks of logic, memory, interfaces, analog, security, and embedded processors—to help our customers introduce more capabilities and reduce integration risk. Our interface IP supports the most popular protocols like USB and HDMI. Our processor IP solutions include CPUs and DSP cores, subsystems, and development tools that enable customers to meet the performance and power requirements of their systems-on-chip. Our security IP such as hardware root of trust and cryptography IP helps prevent evolving threats in connected devices. And our IP Accelerated Initiative provides architecture design support, IP subsystems, signal/power integrity analysis, and more so customers can integrate IP that's tuned to their designs.

Build Secure Software, Faster

Synopsys helps customers build security and quality into the DNA of their software code—at any stage of the software development lifecycle and across the supply chain—to minimize risks while maximizing speed of application development. Our static analysis, software composition analysis, and dynamic analysis solutions allow customers to find and fix vulnerabilities and defects in proprietary code, open source components, and application behavior with unmatched depth, accuracy, and speed. We help companies test their software early and often, so they can avoid costly product crashes, security breaches, and catastrophic system failures. We also automate the process of securing and managing open source software to ensure license compliance, remediate vulnerabilities, and reduce operational risks.

Professional Services

Synopsys' services organization provides consulting and design services to help chip developers accelerate innovation and achieve success in their design programs. These services are tightly aligned with our EDA, IP, FPGA and optical products to advance customers' learning curves and help them develop and deploy advanced methodologies that improve their productivity and design results. Our worldwide team of design consultants complements our customers' core competencies to mitigate their project risks and accelerate the implementation of their chips.

Strategic Alliances

Synopsys has long-established and proven strategic alliances with industry leaders dedicated to jointly solving the challenges of system complexity and nanometer scale for leading-edge SoC design.

ASIC Partners: Atmel, BAE Systems, Epson, Honeywell, Lauterbach, MagnaChip, MegaChips, Renesas, ROHM, Socionext, STMicroelectronics, Texas Instruments, and Toshiba.

Design Service Partners: Alchip, ANSYS, eSilicon, GUC, Open-Silicon, and VeriSilicon.

FPGA Partners: Achronix, Intel, Lattice, Microsemi, QuickLogic, and Xilinx.

Foundries: ams, Dongbu HiTek, Mie Fujitsu Semiconductor, GLOBALFOUNDRIES, Hua Hong Semiconductor, Intel Custom Foundry, MagnaChip, Samsung Foundry, SilTerra, SMIC, TowerJazz, TSMC, UMC, and X-FAB.

Library and IP Partners: Arm, CEVA, Faraday, PLDA, and VeriSilicon.



Other Solution Partners: Silicon Catalyst.

Synopsys Users Group (SNUG)

Since 1991, the Synopsys Users Group (SNUG) has represented a global design community focused on innovating from silicon to software. Today, as the electronics industry's largest user conference, SNUG brings together nearly 10,000 Synopsys tool and technology users across North America, Europe, Asia, and Japan. In addition to peer-reviewed technical papers and insightful keynotes from industry leaders, SNUG provides a unique opportunity to connect with Synopsys executives, design ecosystem partners, and members of the local design community.



Synopsys Community Affairs

Synopsys is committed to strengthening the global communities where we live and work. We leverage the time, talent, and generosity of our employees worldwide to give back and make a difference, and our philanthropy invests in programs and organizations that create meaningful impact.

Employees are the heart of what we do in the community. Through Synopsys Shares, we engage in more than 200 community activities worldwide each year, contributing thousands of volunteer hours and raising funds and essential items through donation drives and disaster relief. Offices form Community Involvement Teams to help drive our strategies to meet local needs, and we encourage employee giving that contributes more than \$1 million annually to global causes that our people are most passionate about. For Synopsys Global Volunteer Day, we bring together employees, their families, and community partners to complete large-scale, done-in-a-day service projects at 20 targeted locations around the world.

Each year, more than \$3 million in charitable giving from the company and The Synopsys Foundation strategically supports nonprofit organizations around the world that are focused on Science, Technology, Engineering, and Mathematics (STEM) education and other important community needs. Our grantmaking creates access and opportunity for underserved communities and meets corporate social responsibility requirements in India, and matching gift donations increase the impact of employee giving to benefit more than 900 organizations. Since 1999, we have invested in the Synopsys Outreach Foundation for hands-on science learning, science fairs, and teacher and school resources, generating 2.1 million total science project experiences for K-12 students in California.