

A School of Engineering Seminar



College of
Science & Engineering



Speaker:

Michel Lévis, M.A.Sc.,
Senior Application
Engineer, Quanser Inc.



Exploring several Robotic Systems from Quanser Company: Parallel robots, Telerobotics, Mobile Robotics

Synopsis:

Quanser has been supplying a variety of robotic systems to universities around the world for 30 years. We have designed our own robotic manipulator, haptic devices, autonomous vehicles, mobile robotics, and Stuart platforms. We also worked with numerous robotic companies such as Kuka, Denso, Kinova, Thermo Fisher Scientific, and Geomagic. In this seminar we want to highlight how different robotic systems are used in a variety of applications, from optimizing wind turbines to noninvasive surgery. We'll go through the system hardware and software of each and discuss how schools use them in research. Learn how these systems relate to industry and how they make you a more employable engineer.

Session's agenda:

1. Stuart Platform: Quanser Hexapod and its varied applications
2. Haptics: How Quanser HD2 is used in medical applications and soldier safety
3. UAVs: Quanser QDrone system overview and University research examples
4. Self-driving vehicles: Quanser QCar system overview and virtual twin demo.
5. Software used in robotics and industry: ROS, Python, MATLAB/Simulink, and Rapid Controls Prototyping

Supporting Videos: Click on the "See it in Action" button [here](#) or [here](#)

Company Bio: Quanser is the world leader in the design and manufacturing of advanced systems for real-time control design and implementation used in education, research, and industry. Over 2,800 universities and research institutions around the world rely on Quanser solutions to expand the state of knowledge in critical research areas and to help them educate a new generation of engineering leaders.

Speaker Bio: Throughout his career at Quanser, Michel Lévis has commissioned Quanser equipment and trained personnel at universities and colleges around the world. Michel started Quanser in 2004 and worked on the modeling, control design, and courseware for over 60+ systems at Quanser.

For more information, please contact Dr. Azadi azadi@sfsu.edu



Date:

November 30, 2022
Wednesday 6:30-8:00 PM

Place:

Zoom Link

<https://sfsu.zoom.us/j/87507827904?pwd=NWxHWDEyTViiTlFqb0Z3UjVnVkMER3UT09>

Meeting ID: 875 0782 7904

In person (students registered in
Engr 869/ Robotics attend in person):

[Hensill Hall 805](#)

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