# Samantha Hoang

shoang@seattleu.edinkedIn: hoangsamantha

### Edib

PhD. iMailEig , University of Washington (UW), Seattle, WA

2017-2022

Faculty AdvisorDr. I.Y. (Steve) Shen

<u>Thesis</u> Effects of Modeling Choices on High-Performance, Multi-Rotor Drone Dynamics and Energ Efficiency

M.S. iMaalEig , UW, Seattle, WA

2017-2020

B.S. iEg , Harvey Mudd College (HMC), Claremont, CA

2013-2017

Faculty AdvisorDr. Ziyad Duron

## TebEiø

AbtP6 , Seattle University, Seattle, WA

2022-

PeDelle , UW, Seattle, WA

2020-2022

<u>Duties</u> Develop lectures and extra materials to aid learning, organize and delegate duties to teaching assist Hold office hours for studer exams and homework assignmentally course materials for online learning due to COVID19.

#### Courses

- Kinematics and Dynamics (Winter 2020 & Summer 2020 [online]) (40–150 Students)
- Finite Element Analysis (Summer 2021 [online]) (25 students)

TebAsh , UW, Seattle, WA

2018-2022

<u>Duties</u> Lead and develop materials for recitation se@tiade all assignments and examusld office hours to answer student ques Adapt course materials for online learning due to COVID19.

#### Courses

- · Undergraduate:
  - Kinematics and Dynamics (Winter 2018, Winter 2021 & Spring 2021 [online]) (130-160 Studen
  - Machine Design Analysis (Spring 2018) (65 students)
  - Introduction to System Dynamics (Winter 2019) (160 Students)
  - Systems Dynamic Analysis and Design (Spring 2019 & 2020 [online]) (160 Students)
- Graduate:
  - Dynamics and Vibrations (Fall 2020 & 2021 [online]) (50 Students)

TebAstad\_abPt , HMC, Claremont, CA

2016-2017

<u>Duties</u> Assist with example problems in recitation se**Griades** all assignments and exa**Ass**sist in lab experiments and building of model rockets, underwater robots, and sensor circuits CoursesExperimental Engineering (Spring 2016 & Spring 2017) (80-90 students)

# RebEi

Satigot enig Sate grigita Class

, Doctoral Student Researcher

2021-

Ava Obenaus & Elizabeth Rasmussen, Graduate Students, Mechanical Engineering Department, UW

- Collect data from student evaluations and instructor interviews on the transition from in-person to onli learning for ME 230
- · Identify changes in student engagement during transition to online learning
- Identify effective teaching strategies for increasing student engagement in both in-person and onlin settings

- 2. HagS. , Liu, Y., Aliseda, A., and Shen, I. Y. "Stability analysis of high-performance drones with suspended payloads."IDETC-CIE Vol. 59285 (2019): p.VOO8T10ADBPs: //doi . org/10. 1115/DETC2019-97947
- 1. Abi Ghanem, M., Liang, X., Lydon, B., Potocsnak, L., Wehr, T., Ghanem, Hodgs. , Cai, S., and Boechler, N. "Wrinkles Riding Waves in Soft Layered Materials Interfaces Vol. 6, No. 1 (2019): p. 1801609.ttps://doi.org/10.1002/admi.201801609

### Phib

#### **lib**Tak

Hags. and Shen, I. Y. "Effects of High Fidelity Modeling of Multirotor Driftesc"-CIE Spotlight Session, Virtual, August 2021.

#### C**6**Tak

HagS. and Shen, I. Y. "Cost of Controls for Multi-rotor DrdDesC-CIE, Virtual, August 2021.

HagS. , Marsh, L., Aliseda, A., and Shen, I. Y. "Analysis of High Fidelity Modeling of Drone Dynamics and Aerodynamics for Reduced Energy Consumption.".C-CIE, Virtual, August 2020.

HagS. , Liu, Y., Aliseda, A., and Shen, I. Y. "Stability analysis of high-performance drones with suspended payloads." IDETC-CIE, Anaheim, CA, August 2019.

16Y., Ab20197-259(MO)1154Tf753po).9960005040385.Hor/F6611.9552T54562.732