

# TomHenry Reagan

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## EDUCATION

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Harvard University 2022-present  
Ph.D. Engineering Sciences - Electrical Engineering *expected* 2028  
Advisor: Donhee Ham  
Group: [Donhee Ham Lab](#)

Colorado School of Mines (CSM) 2016-20  
B.S. Electrical Engineering 4.00 GPA  
Minor: Computer Science *summa cum laude*  
Minor: Public Affairs - McBride Honors Program

Maine School of Science & Mathematics (MSSM) 2012-16  
Residential magnet school specialized in STEM disciplines.

## PROFESSIONAL EXPERIENCE

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Advanced Micro Devices, Inc.  
Silicon Design Engineer 2 Sep 2021-Jun 2022

- Member of Floating Point (FP) Cores team
- FP team floorplanning lead
- FP unit lead physical designer in one CPU core tapeout
- Specialized in power-efficiency optimization and physical verification
- Converged timing, power, etc. of FP logic to tapeout goals through physical design in two CPU programs using sub-10nm process
- Developed, maintained IR-drop mitigation software for site-wide use
- Recruited, screened engineering new-hires

Silicon Design Engineer 1 Jul 2020-Sep 2021  
Physical Design Co-op May-Aug 2019

## PUBLICATIONS

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- [1] TH. Reagan, S. Claussen, and E. Lyne, "Systematic Review of Rigorous Research in Teaching Introductory Circuits", in *Proc. 2020 ASEE Virtual Annual Conference*, 2020
- [2] C. Coulston, H. Sager, TH. Reagan, D. Werner, and J. Wiens, "The Relationship Between the Cognitive Level of Lab Questions and the Number of Requests for Individual Help", in *Proc. ASEE Rocky Mountain Section Conference*, 2019

## AWARDS & HONORS

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- First Place, Capstone Design Showcase, CSM May 2020
  - Title: *Autonomous Surface Vehicle*
- First Place, Capstone Design Ethics Essay Contest, CSM May 2020
  - Title: *The Case Against Facial Recognition Technology*
- Distinguished Senior Award, McBride Honors Program, CSM 2020
- Engineer Award, CSM EE Department 2020
- Mines Undergraduate Research Fellow 2019-20
- Jeffrey R. Garrett Memorial Scholarship, Phi Gamma Delta 2018
- Dean's List Honors, CSM 2016-20
- President's Undergraduate Scholarship, CSM 2016-20
- Maine Principal's Award, MSSM 2016

## TEACHING EXPERIENCE

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### CSM Department of Electrical Engineering

- Teaching Assistant, EENG 383 - Microcomputer Architecture S2019
- Teaching Assistant, EENG 310 - Information Systems Science F2018

### CSM Department of Physics

- Teaching Assistant, PHGN 100 - Physics I: Mechanics S2017, F2017, S2018

## ACTIVITIES & MEMBERSHIPS

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- Harvard GSAS World Music Collective - *Drumset Performer* 2022-
- Harvard Graduate Student Union - *Grievance Officer* 2022-
- Democratic Socialists of America, Fort Collins - *Education Chair* 2020-22
- Blue Key Honors Society, CSM - *Treasurer* 2019-20
- Forum of Music Lovers, CSM - *Treasurer* 2018-20
- Linux Users Group, CSM 2017-20