

ECE EVENTS & OUTREACH

Fall 2020



DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

SUMMER EVENTS



NEW STUDENT WELCOME & INFORMATION SESSION

- July 30
- Objective: Develop a sense of community among freshmen students
- Audience: New incoming freshmen students and families
- Joseph JaJa provided a department overview
- The Undergraduate Team discussed classes
- Peer Mentor Program overview
- Lyndon Brown '04 and Kelly Fernandez '16 discussed their experiences
- 50 in attendance

SUMMER EVENTS

The poster features a dark blue background with a network of white dots and lines, overlaid on a city skyline at night. The text is white and blue. The title is at the top, followed by the date and time. A blue box contains the RSVP link. Below is the 'Speakers' section with three portraits and their titles. The 'Session Topics' section is at the bottom with a bulleted list.

EMBEDDED SYSTEMS & IOT INFORMATION SESSION

Monday, August 24, 2020 | 12-1 PM

RSVP: go.umd.edu/esiot-session

Speakers



Joseph Jaja
ECE Professor &
Department Chair



Romel Gomez
ECE Professor & Associate
Chair for Undergraduate
Education



Ron Zahavi
Chief Strategist for IoT
Standards, Microsoft

Session Topics

- ECE Department overview of initiatives in the field
- ECE's Bachelor of Science Degree in Embedded Systems and IoT
- Current and future trends in IoT

EMBEDDED SYSTEMS AND IOT INFORMATION SESSION

- August 24
- Prof Mel Gomez gave an overview on Department initiatives in this field and discussed the Shady Grove Program
- Ron Zahavi (Microsoft) gave an industry perspective
- 95 registered/attended (alumni, students, faculty)

FALL BOOZ ALLEN HAMILTON COLLOQUIUM SPEAKERS

Average Number of Attendees: XX

1 SEPTEMBER 4 - XIAOFENG WANG
Professor of Computer Science and Engineering, Indiana University Bloomington

2 SEPTEMBER 11 - BARBARA SHINN CUNNINGHAM
Deputy Director, Carnegie-Mellon Neuroscience Institute

3 SEPTEMBER 25 - JD DULNY
Chief Scientist, Booz Allen Hamilton

4 OCTOBER 9 - BAHMAN GHARESIFORD
Associate Professor, Queen's University, Ontario, Canada

5 OCTOBER 23 - RACHAEL MYERS-WARD
Director, High Power Electronics Branch / Power Materials Section,
US Naval Research Lab

6 NOVEMBER 6 - DENNIS ANDRUCYK
Center Director, NASA Goddard Space Flight Center

7 NOVEMBER 13 - REZA GHANADAN
Senior Manager, Google Cloud AI

8 NOVEMBER 20 - THOMAS MURPHY
Professor, Electrical and Computer Engineering
Director, Institute for Research in Electronics and Applied Physics

9 DECEMBER 4 - FREDRIK FATEMI
Branch Chief for Quantum Sciences, The CCDC Army Research Lab
Associate Director, Quantum Technology Center

IEEE LEADERSHIP SEMINARS



OCTOBER 7

Anuja Sonalker, CEO, SteerTech

held in conjunction with the Clark School's Whiting-Turner Lecture Series

-Over 60 in attendance



OCTOBER 15

Rodney Oddeye, Senior VP, BG&E

-20 in attendance



NOVEMBER 13

Rose Faghih, Assistant Professor, University of Houston

-20-25 in attendance

EVENTS



Family Night Schedule

October 2, 2020

5:00 - 6:30 PM

5:00 - 5:15 PM	Welcome & Event Introduction, Amanda Stein, Director, External Relations Welcome Remarks - Dr. Joseph Jaja, Professor and Department Chair
5:15 - 5:25 PM	Dr. Donald Yeung, Associate Chair for Undergraduate Education
5:25 - 5:35 PM	Remote Lab Innovations, Dr. Romel Gomez, Professor
5:35 - 5:45 PM	Undergraduate Office Team Introductions Kathryn Weiland, Assistant Director / Interim Director Michael Robinson, Advisor Hollin Van Buren, Advisor
5:45 - 6:00 PM	ENEE 101 - Introduction and Lab "Tour" - Dr. Julius Goldhar, Professor
6:00 - 6:10 PM	Juniper Lab Introduction and Tour - Dr. Zoltan Sofar, Director, Masters in Telecommunications Program
6:10 - 6:15 PM	Student Organization Presentation - Catherine Gao, IEEE President
6:15 - 6:20 PM	ECE Alum Lyndon Brown, Vice President of Business Development, Verodin
6:20 - 6:30 PM	Questions

FAMILY NIGHT

- October 2: 5-7 PM
- 68 students and parents registered/attended

EVENTS

ECE FALL CAREER FAIR

- **October 16: 11 AM - 4 PM**
- Objective: Provide students with an opportunity to network and search for jobs and internships
- Audience: All current ECE Undergraduates
- 128 students attended
- 38 employers attended



EVENTS



THE DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
CORDIALLY INVITES YOU TO THE 9TH ANNUAL

Virtual Distinguished Alumni Awards

October 29, 2020 | 5-6 PM

Celebrate the induction of ECE's newest Distinguished Alumni who are recognized for their leadership, significant achievements, and meritorious contributions to their chosen field.

[Click Here to RSVP](#)

2020 Recipients



George Barnes
(B.S. '86)

Deputy Director,
National Security
Agency

Jie Chen
(M.S. '95, Ph.D. '98)

Professor, University
of Alberta

Amit Roy-Chowdhury
(Ph.D. '02)

Professor and Chair,
University of
California, Riverside

Alan Pue
(Ph.D. '81)

Chief Scientist,
JHU APL
(Retired)

Anuja Sonalker
(Ph.D. '06)

Founder and CEO,
STEER Tech

DISTINGUISHED ALUMNI AWARDS

- October 29
- Objective: Recognize and award distinguished ECE alumni for their major contributions during annual ceremony
- 29 guests attended
- Awardees:
- **George Barnes**, Deputy Director, National Security Agency
- **Jie Chen**, Professor, University of Alberta
- **Amit Roy-Chowdhury**, Professor and Chair, University of California, Riverside
- **Alan Pue**, Chief Scientist, JHUAPL
- **Anuja Sonalker**, CEO, SteerTech

FIRESIDE CHATS

DISCUSSION WITH PERCY PIERRE, PHD

September 29

-30 registered



CAPSTONE DESIGN PRESENTATION: AUTONOMOUS CONTROL OF INTERACTING ROBOTS

December 10

-50 registered



OTHER FALL EVENTS



- **NRL-UMD VIRTUAL SIGNING CEREMONY**
- **TEXAS INSTRUMENTS INFORMATION SESSION AND WORKSHOP**
- **INTRODUCTION TO JUNIPER SECURITY (IJSEC) COURSE**
- **MIST WEBINAR (JUNIPER NETWORKS)**
- **ECEGSA ACADEMIC CAREER PANEL**

PHILANTHROPY

**THANK YOU TO OUR ADVISORY BOARD MEMBERS FOR THEIR
PHILANTHROPY THIS YEAR!**

CORPORATE AFFILIATES/FELLOWSHIPS

IDEA FACTORY

STUDENT CRISIS FUND

PRINT MARKETING



- **ANNUAL CONNECTIONS ALUMNI MAGAZINE**

- Feature: Embedded Systems and IoT
- Distributed November 2020 to alumni and peers
- Increased to 36 pages

SOCIAL OUTREACH



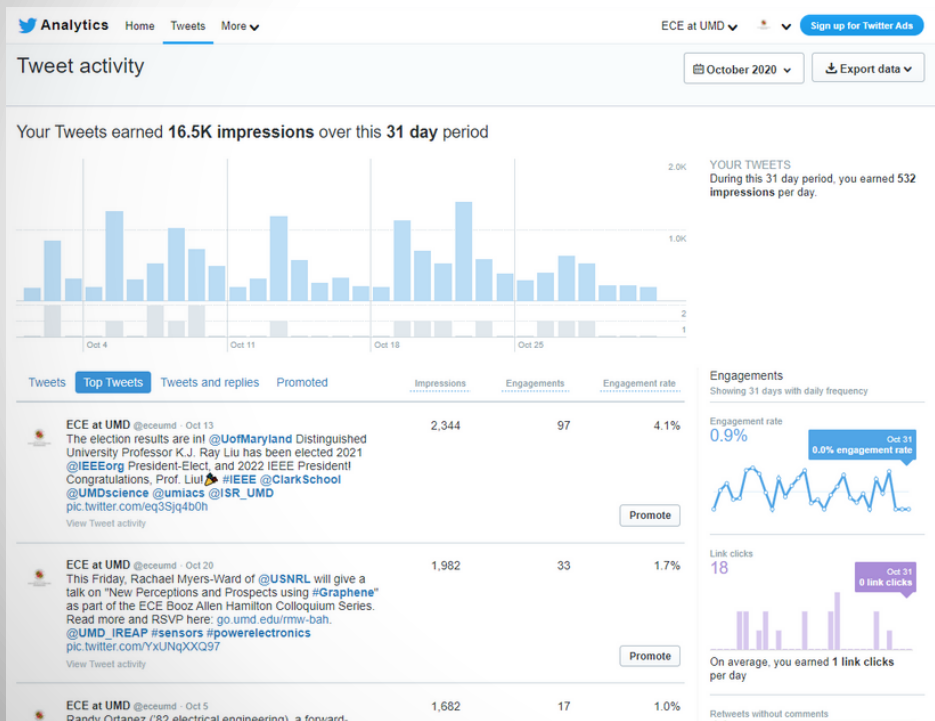
FACEBOOK

10/21/2020 6:27 PM	 The ECE Department's annual Distinguished Alumni Awards will be	 	312		5%		Boost Post
10/19/2020 3:42 PM	 Congratulations to Thomas Murphy for being named a Distinguished	 	468		9%		Boost Post
10/13/2020 1:56 PM	 The election results are in! We are excited to announce that	 	760		8%		Boost Post
10/05/2020 2:52 PM	 Coming to the U.S. was "a dream come true," says Randy Ortanez ('82	 	245		2%		Boost Post
10/05/2020 11:03 AM	 Join us this Wednesday evening for a talk by ECE alum, Anuja Sonalker.	 	235		4%		Boost Post
10/01/2020 3:48 PM	 Hello ECE Undergraduate Students and Families! Join us virtually	 	277		4%		Boost Post
09/25/2020 4:00 PM	 Join our team! The ECE Department is seeking a Program Coordinator to		290		2%		Boost Job
09/25/2020 3:58 PM	 Join us next Tuesday for this exciting event!	 	193		0.518%		Boost Post
09/14/2020 5:01 PM	 The ECE Department moved up to No. 17 (computer engineering) and	 	438		9%		Boost Post
08/19/2020 4:17 PM		 	230		2%		Boost Post
07/22/2020 1:55 PM	 Published today in Nature, Quantum Technology Center researchers and	 	334		2%		Boost Post

● FACEBOOK: TOP POST IN OCTOBER

Top Post: Professor K.J. Ray Liu elected 2021 IEEE President-Elect

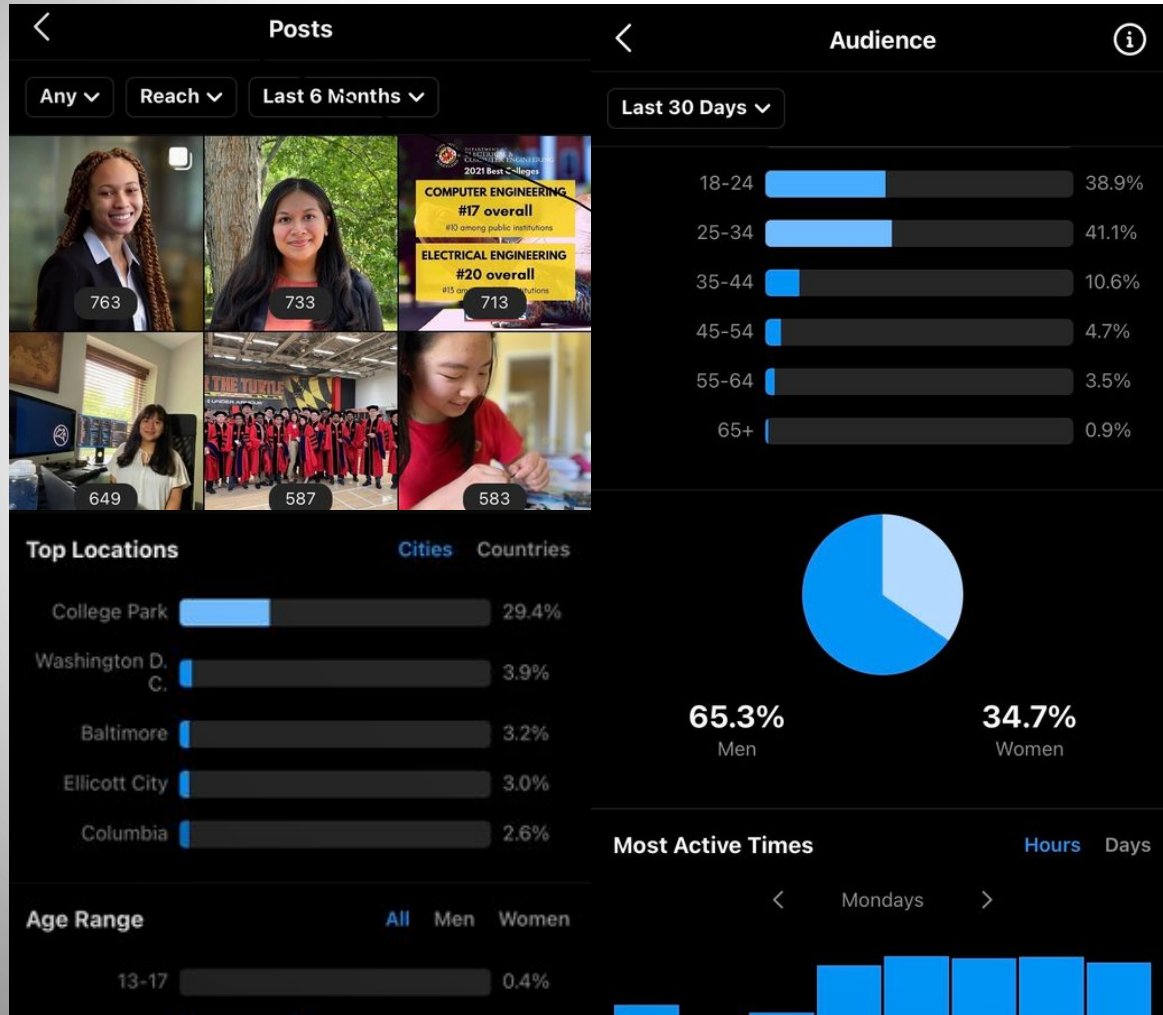
TWITTER



● HIGHEST ENGAGEMENT IN OCTOBER

Top Tweet: Professor K.J. Ray Liu elected 2021 IEEE President-Elect

INSTAGRAM

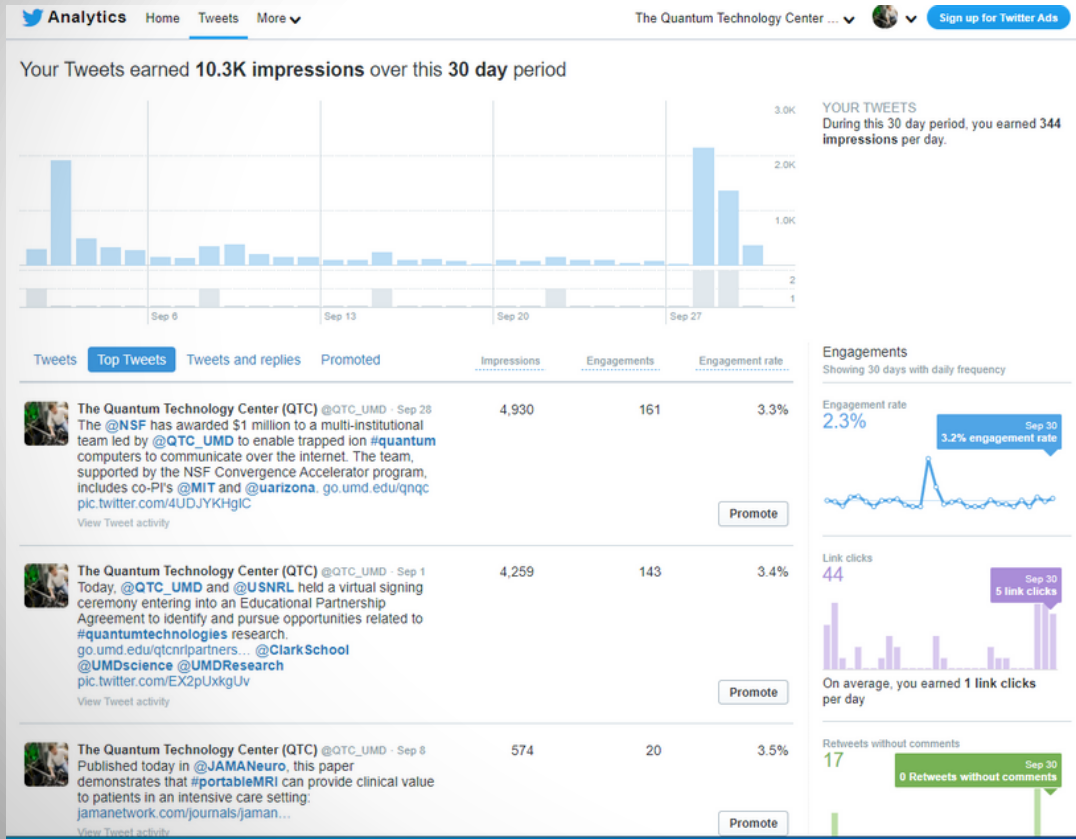


• INSTAGRAM REACH AND LIKES

Many of the posts with the highest engagement include student takeovers, rankings, and student and faculty awards.

-Close to 1K followers

QTC SOCIAL



● QTC TWITTER

Highest engagement numbers were in June and September

Top Tweet: UMD to Lead \$1M NSF Project to Develop a Quantum Network to Interconnect Quantum Computers

QTC SOCIAL

The screenshot shows the LinkedIn profile for the Quantum Technology Center. The page features a red header with the QTC logo, which consists of the letters 'QTC' in a stylized, glowing font. Below the header, the profile name 'Quantum Technology Center' is displayed, along with the location 'Research · College Park, Maryland' and '153 followers'. The tagline 'Innovate.Translate.Educate' is also visible. There are buttons for '+ Follow' and 'Visit website'. The 'About' section provides a brief description of the center's mission. The page also includes a navigation menu on the left and a bottom bar with filters for 'Images', 'Documents', 'Videos', and 'Ads'.

- **QTC LINKEDIN PAGE**

LinkedIn page was created in May 2020
(21 Followers)

- **NOW 153 FOLLOWERS**

SPRING 2020 HIRING DATA

• CLARK SCHOOL- OVERALL

- 853 students
- 360 Unique Companies
- >37 employers hired 5 or more students
- 253 hired 1 student

• THE TOP EMPLOYERS

- Northrop Grumman – 55
- Naval Air Systems Command (NAVAIR) - 33
- Whiting-Turner - 27•
- Lockheed Martin - 23
- Naval Sea Systems Command (NAVSEA) 17
- Boeing - 15
- NASA - 13
- Accenture - 13
- Deloitte - 12
- MC Dean - 12
- JHU Applied Physics Lab (APL)- 11
- Amazon- 11

SPRING 2020 HIRING DATA

- **CLARK SCHOOL HIGHLIGHTS COMPARED TO 2019**

- Northrop Grumman employed the most in 2019 with 42 (up 2 from 2018)
- Northrop Grumman employed 55 in 2020 (up 13)
- JHAPL dropped from Top 10 (hired 11 in 2020, down 15 from 2019)
- Accenture and MC Dean were not in the Clark School's top 10 in 2019
- Amazon and Textron (way down) dropped out of the top 10

SPRING 2020 HIRING DATA

• ELECTRICAL ENGINEERING

- 98 Students (grad and undergrad)
- 59 Unique Companies
- 45 hired 1 student

• COMPANIES THAT HIRED 3 OR MORE- 2020

- Northrop Grumman- 20
- NAVAIR- 3
- Naval Reactors - 3
- Jacobs - 3•
- ARL - 3
- Intel - 3

• TOP EMPLOYERS- 2019

- Northrop Grumman- 14 (up 6)
- • NAVAIR - 11 (down 8)
- JHAPL - 9 (down 8)
- Textron - 5 (hired none in ECE)
- Deloitte- 4 (hired no EEs)
- Amazon- 4 (hired no EEs)
- Google - 4 (hired none)

SPRING 2020 HIRING DATA

● **COMPUTER ENGINEERING**

- 78 Students (undergrad only)
- 44 Unique Companies
- 32 hired 1 student

● **TOP EMPLOYERS- 2019**

- Capital One - 5 (up 1)
- Microsoft - 4 (same)
- Northrop Grumman - 3 (up 8)
- NSA - 3 (down 1)
- Amazon - 3 (up 1)
- Booz Allen Hamilton - 3 (same)
- Leidos - 3 (down 1)

● **COMPANIES WITH MORE THAN 1 HIRE**

- Northrop Grumman - 11
- Capital One - 6
- Microsoft - 4
- Amazon - 4
- Fannie Mae - 4
- Booz Allen Hamilton - 3
- JHUAPL - 3
- NSA - 2
- Bloomberg - 2
- Hughes Network Systems - 2
- Leidos - 2
- Thales - 2

SPRING 2020 HIRING DATA

- **MASTERS IN TELECOMMUNICATIONS**

- 12 Students
- 7 Unique Companies
- 5 hired 1 student

- **TOP EMPLOYERS- 2019**

- Qualcomm - 6 (down 3)
- Amazon - 5 (down 1)
- Hughes - 3 (no hires)
- Cisco Systems - 3 (no hires)

- **COMPANIES THAT HIRED 3 OR MORE- 2020**

- Amazon - 4
- Qualcomm - 3
- Ultra Electronics - 1
- Leidos - 1
- Verizon - 1
- CCC Info Systems -1
- Square - 1

SPRING 2020 HIRING DATA- SALARY

- **CLARK SCHOOL MEAN SALARY- \$75,800**
- **EE MEAN SALARY- 79,700**
 - \$76,900 in 2019
- **CE MEAN SALARY- \$92,400 (HIGHEST AT UMD)**
 - \$89,600 in 2019