

ECE External Relations Team

Dr. Joseph JaJa, Interim Chairman of ECE

Amanda Stein, Director

Relationship Building & Community Outreach

Corporate Relations/Corporate Affiliates Program

Startup Support

Advisory Board

External Relations Management

Kara Stamets, Coordinator

Project management of marketing materials

Event Promotion

Public and Media Relations

Website development & maintenance

Student Coordination

Writer/Editor/Photographer

Darcy Long, Program Management Specialist

QTC Coordinator

Event Coordination/Logistics

Administrative Tasks & Development Support

Research

Aaron Bobik, Major Gifts Officer

Alumni Outreach Philanthropy



Board Update



Lyndon Brown!



Events



Fall 2019 Events

- ECE Family Night Reception & Lab Tours
- Juniper Networks Lab Ribbon-Cutting Ceremony
- ECE Fall Career Fair
 - 40 companies registered
- Industry Tech Talks/Lobby Days
- ECEGSA Academic Career Panel
- IEEE Leadership Seminars
 - Alka Bhave, Perspecta Inc.
 - Sarbari Gupta, Electrosoft
 - Gerald Charles, Under Armour
- IEEE Student events (Socials, Reading Day)
- 7 Booz Allen Hamilton Colloquium Speakers
- Clark School 125th Anniversary Events
- Technica Student lead Hackathon
- ECE Alumni Open House
- Clark School Innovation Hall of Fame



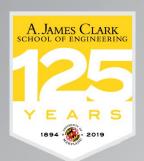
Spring 2020 Events

- ECE Spring Career Fair March 6
- Three IEEE Leadership Seminars
- Bitcamp Student-led Hackathon
- 8 Booz Allen Hamilton Colloquium Speakers
- Lobby Day/Technical Talks
- ECEGSA Industrial Career Panel
- Maryland Day
- ECE Distinguished Alumni Awards May
- ECE Graduation Reception May
- Clark School Commencement Golden Terps









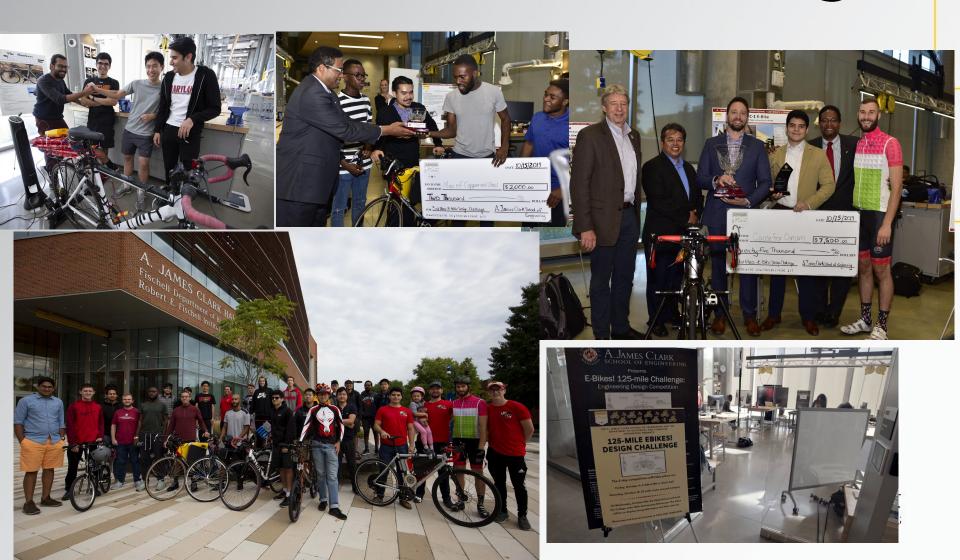
125th A. James Clack School Anniversary Events

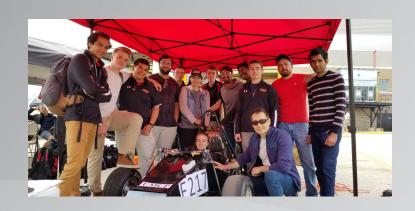
ECE Involvement in Anniversary Events:

- 125-Mile Ebikes! Design Challenge (October 10th-11th)
- Terps Racing EV Team
- 125th Anniversary Showcase & Awards Ceremony (October 15th)
- 4 Booz Allen Hamilton Colloquiums featured distinguished ECE alumni in conjunction with the Anniversary
- 125th Anniversary Gala (November 21st)
- 125th Anniversary Books



Ebikes! 125-Mile Design Challenge







About Terps Racing EV

- Terps Racing EV is an organization of students that **design**, **build**, **test**, **and race** an electric formula-style racecar in collegiate design competitions each year.
- This year's team has over 40 undergraduate students, two team mentors and it is advised by Prof. Alireza Khaligh.
- The Formula SAE competitions challenge teams of university undergraduate and graduate students **to conceive**, **design**, **fabricate**, **develop and compete** with small, formula style vehicles.

Goals for 2020

Manufacture our second Formula Style EV
Build our own battery pack
Design our own battery management system
Design our own PCB circuits
Design our own chassis
Compete at the Formula SAE North 2020 competition
Secure a place among the top 5



Terps Racing EV 2020 CAD

Marketing



Marketing

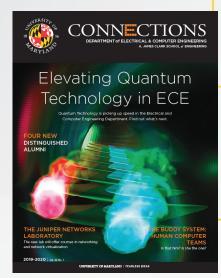
Print Marketing

- Marketing Invitations and Flyers, new BSIOT materials
- Family Weekend Direct Mailer
 - Sent to all ECE undergraduates and families
- 2019-2020 Connections Magazine
 - Over 7K sent to alumni, deans & chairs
 - 32 pages, 4 page Quantum feature

Email Marketing

 Fall E-Newsletters: Open rate - exceeding industry average, click-through rate average

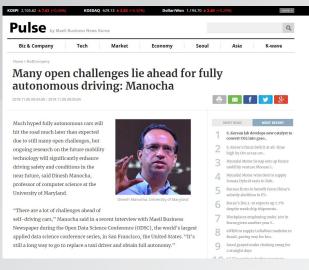
ECE E-Newsletters: Fall 2019	ECE Average	Industry Average
Open Rate	25%	21%
Click-through Rate	7 %	7 %

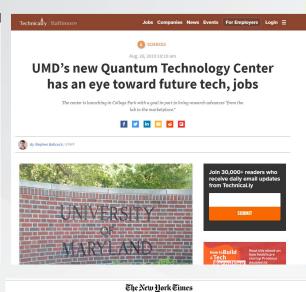


SCHOOL OF ENGINEERING

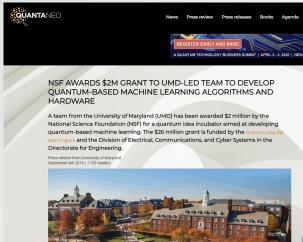
Media Placements











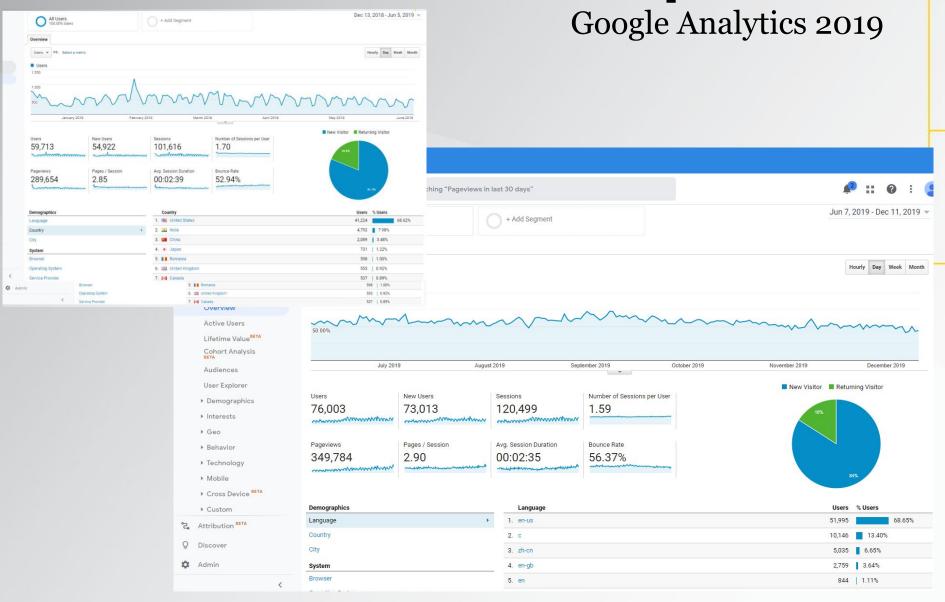
George Laurer, Who Developed the Bar Code, Is Dead at 94

Every purchase evokes his design of the rectangular Universal Product Code. But although it became ubiquitous, he received no royalties.





ECE Website Comparison



New Websites!

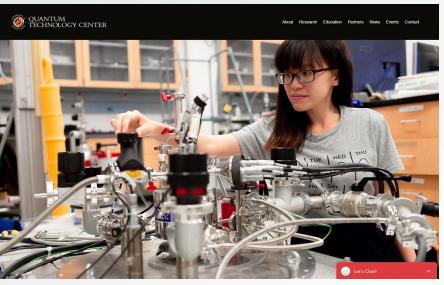
shadygrove.ece.umd.edu Launched August 2019



qtc.umd.edu

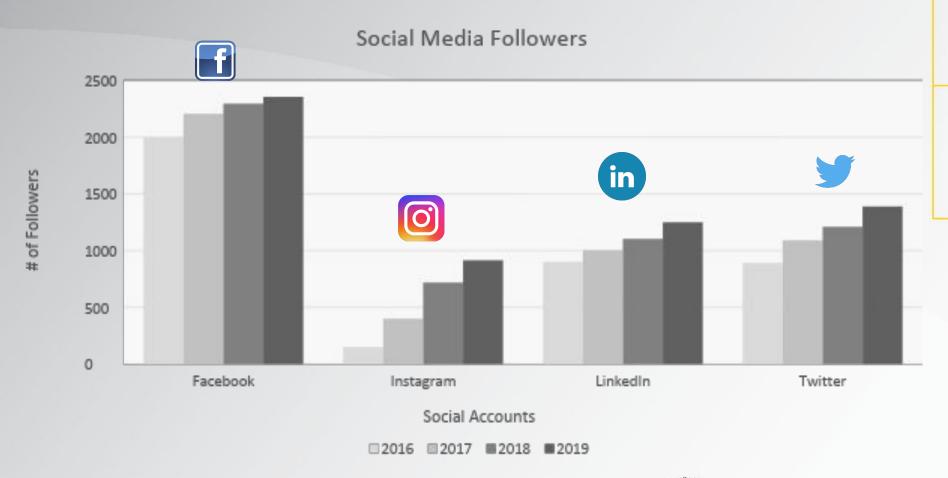
Launched December 2019

QTC_UMD Twitter launched August 2019





Social Media



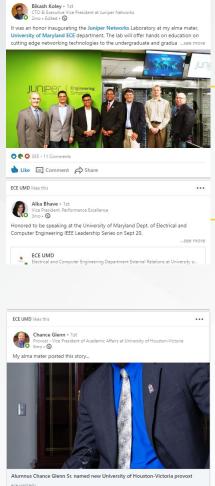


Alumni Engagement

- All IEEE Leadership Seminars were led by
 ECE alumni (2 of the 3 were women)
- 4 of our 7 Distinguished Booz Allen Hamilton
 Speakers were alumni
- Clark School Innovation Hall of Fame winner was ECE alum: Donald H. Willis '61
- Bikash Koley 'oo, led efforts for Juniper
 Networks Lab Opening
- First annual ECE Alumni Open House was a success: 40+ registered to attend
- Many re-shares and comments on ECE news articles









Like ☐ Comment ⇔ Share

Initiatives Met

Spring-Fall 2019

- Collaborate with the Undergraduate Advising Team to deploy new website and marketing campaign for the Bachelor of Science degree at Shady Grove in Embedded Systems and IOT
- Strengthen alumni relationships more spotlight articles, social media highlights/outreach on LinkedIn, speaking engagements
- Host ECE Alumni Event during UMD Homecoming week
- Drive the 125th Anniversary Clark School Campaign





Looking Forward in Marketing

- Continue to increase social media following and buzz on ECE & QTC accounts
- Maintain and amplify ECE, QTC, and Shady Grove Websites
 - Develop video for ESIOT program
- Late February: Launch admitted women student outreach initiatives with Advising Office
- Continue to host distinguished speakers and enhance social and academic student events



Spring 2019 – Full Time Hiring Data



Clark School- Overall

873 students 396 Unique Companies >40 employers hired 5 or more students 261 hired 1 student

<u>Top 10:</u>

- Northrop Grumman 42
- Naval Air Systems Command (NAVAIR) 38
- JHU Applied Physics Lab- 26
- Whiting-Turner- 23
- Lockheed Martin- 18
- Amazon- 14
- NAVSEA- 13
- Deloitte- 11
- Textron- 11
- Boeing- 11
- NASA- 10



Clark School- Compare to 2018

- NAVAIR employed the most in 2018 w/ 42 (down 4)
- Northrop Grumman employed 40 (up 2)
- APL went from 18 hires to 26
- Deloitte, Textron, Boeing and NASA were not in the Clark School's top 10 in 2019
- Accenture, Orbital ATK and Clark Construction dropped out of the top 10

Electrical Engineering

154 Students (grad and undergrad) 88 Unique Companies 66 hired 1 student

Companies with 3 or more hires:

- Northrop Grumman- 14
- NAVAIR- 11
- JHU Applied Physics Lab- 9
- Textron- 5
- Deloitte- 4
- Amazon- 4
- Google- 4
- MC Dean- 3
- Exelon-3
- Hughes- 3
- Leidos- 3
- Intelligent Automation Inc. 3

2018 Top 5 Employers:

- Northrop Grumman- 14 (stayed the same)
- NSA- 5 (no EEs in 2019, 5 CE)
- NAVAIR- 5 (up 6)
- MC Dean- 5 (down 2)
- NIST- 5 (down 4)



Computer Engineering

68 Students (undergrad only)
46 Unique Companies
36 hired 1 student

Companies with more than one hire:

- Capital One- 5
- Microsoft- 4
- Northrop Grumman- 3
- NSA- 3
- Amazon- 3
- Booz Allen Hamilton- 3
- Leidos- 3
- Google- 2
- JHU Applied Physics Lab- 2
- JP Morgan- 2

2018 Top 5 Employers:

- Northrop Grumman- 8 (down 5)
- Amazon- 7 (down 4)
- Capital One- 6 (down 1)
- Appian- 6 (down 5)
- APL-4 (down 2)



Masters In Telecommunications

26 Students 13 Unique Companies 9 hired 1 student

Companies with more than one hire:

- Qualcomm- 6
- Amazon- 5
- Hughes 3
- Cisco Systems- 3

2018 Top 5 Employers:

- Oracle 6
- Cisco Systems 5
- Akamai Technologies 3
- Qualcomm 2
- T-Mobile 2



Salary Data-2019

- Intern Hourly Wage
 - Computer Engineering- \$24.80
 - Electrical Engineering-\$23.70
- Entry Level Salary (BS):
 - Computer Engineering- \$89,600 (highest in the College and University!)
 - Electrical Engineering- \$76,900
- Entry Level (MS)
 - Electrical Engineering- \$95,400
- Entry Level (PhD)
 - Electrical Engineering- ~\$120,000

 A. JAMES CLARK SCHOOL OF THE STREET

Corporate & Alumni Relations



Clark School Funding Priorities

- Doctoral fellowships
- Facilities
- Professorship & chairs
- Facilities
 - New Buildings- IDEA Factory
 - Labs
- Unrestricted support
 - Seeding research
 - Instrumentation
 - Faculty start-up funds
- Scholarships
 - Maryland Promise matching gift program

Strategic Priorities

- Women in ECE
- Alumni Relations Outreach
- Corporate Engagement
 - Hiring ECE Students
 - Research with Faculty
 - Teaming
 - Startup Support
- Additional Renovation of Existing Labs
- Subject matter priorities
 - Machine Learning
 - IoT
 - Quantum
 - Cybersecurity



2019 Engagements of Note

- \$50,000 endowed scholarship- merit based for junior or senior EE or CE student
- Partnership Renewals
 - 11 years of Booz Allen Hamilton Colloquium
 - TI Peer Mentoring & ENEE 101 Lab Renovations
 - Renewal of Thales Corporate Affiliates (lapsed 3 years!)
- New Corporate Affiliate- CoolCAD Electronics
 - sponsorship of student/research
- Software Defined Network Industry sponsored grants
- QTC planning- both government and corporate, James Clark
 school of engineering

Looking Forward-2020

- Secure funding for a new and/or lab renovation
- Secure inaugural partners for QTC- Government and Industry
- Work with the campus on Amazon proposals/relationship development
- Capstone projects for ML
- Sponsorship of the Academy of Machine Learning
- Funding for IoT program
- Chair/Endowed Faculty position



Let's Talk SWOT for Corporate Relations



Thank you!

Questions??

