



# Engineering in Coding Engineering Challenge Camp

**June 18-23, 2017**

Cosponsored by the West Virginia University  
Benjamin M. Statler College of Engineering & Mineral Resources and EQT  
and sponsored in part by  
Halliburton, Eaton, and the Service League of Morgantown

## Sunday, June 18, 2017

| Time       | Activity                               | Place                      | Led By             |
|------------|--|----------------------------|--------------------|
| 5:30 p.m.  | Drop Off/Check In                      | Bennett Tower              | Cate Schlobohm     |
| 6:30 p.m.  | Welcome/Rules/Icebreaker               | Tower's Basketball Court   | Evening Counselors |
| 8:00 p.m.  | Ice Cream Social and Free Time in Dorm | Bennett Tower Commons Area | Evening Counselors |
| 11:00 p.m. | Lights Out                             | Bennett Tower              |                    |

## Monday, June 19, 2017

| Time       | Activity   | Place                        | Led By                                     |
|------------|--|------------------------------|--|
| 8:00 a.m.  | Breakfast  | Towers Cafeteria             |  |
| 9:00 a.m.  | Icebreaker<br>Design Process and Types of Engineering Discussion | Courtyard/205 MRB            | Day Time Counselors                        |
| 11:00 a.m. | Introduction to Robotics   | 109 MRB                      | Dr. Brian Woerner—Chair of Lane Department |
| 12:00 p.m. | Lunch  | G84 ESB                      | Day Time Counselors                        |
| 1:00 p.m.  | Introduction to programming with Lego Mindstorms                 | G11 ESB                      | Dr. Brian Woerner                          |
| 2:30 p.m.  | Robotic Guidance and Navigation                                  | G11 ESB                      | Dr. Brian Woerner                          |
| 4:00 p.m.  | Go to dorms to change  | Bennett Tower                | Evening Counselors                         |
| 4:30 p.m.  | Travel to Ropes Course   | Bennett Tower                | Evening Time Counselors                    |
| 5:00 p.m.  | Low Ropes Course   | WVU Outdoor Education Center | WVU Adventure Staff                        |
| 8:30 p.m.  | Return to Towers   | Bennett Tower                | Evening Counselors                         |
| 9:00 p.m.  | Free Time in Dorm  | Bennett Tower                | Evening Counselors                         |
| 11:00 p.m. | Lights Out   | Bennett Tower                |  |

## Tuesday, June 20, 2017

| Time       | Activity                                 | Place            | Led By   |
|------------|--|------------------|--|
| 8:00 a.m.  | Breakfast                                | Towers Cafeteria | Day Time Counselors  |
| 9:00 a.m.  | Android App Development and its Security | G3 ESB           | Dr. Fanny Ye- Lane Department  |
| 12:00 p.m. | Lunch Speaker from Key Logic             | G84 ESB          | Kevin Reid, VP National Security and Chief Information Officer (Tentative) |
| 1:00 p.m.  | Practicing Cyber Attack and Defense      | 137 AERB         | Dr. Fanny Ye   |

|            |                          |                         |                               |
|------------|--------------------------|-------------------------|-------------------------------|
| 3:00 p.m.  | Cyber Security Scrimmage | G11 ESB                 | David Krovich—Lane Department |
| 5:00 p.m.  | Dinner at Towers         | Towers Cafeteria        | Evening Counselors            |
| 6:00 p.m.  | Bowling and Billiards    | WVU Mountainlair        | Evening Counselors            |
| 8:30 p.m.  | Icecream at DQ           | Dairy Queen on High St. | Evening Counselors            |
| 9:30 p.m.  | Free Time in Dorm        | Bennett Tower           | Evening Counselors            |
| 11:00 p.m. | Lights Out               | Bennett Tower           |                               |

### Wednesday, June 21, 2017

| Time       | Activity                                      | Place              | Led By                            |
|------------|---|--------------------|-----------------------------------|
| 8:00 a.m.  | Breakfast                                     | Towers Cafeteria   |                                   |
| 9:00 a.m.  | Social Good Hackathon                         | G3 ESB             | Dr. Saiph Savage- Lane Department |
| 12:00 p.m. | Leidos Lunch Speaker                          | G84 ESB            | Mr. Mark Alvaro                   |
| 1:00 p.m.  | Hacking Social Good Bots (Build your own bot) | 137 AERB           | Dr. Saiph Savage                  |
| 5:00 p.m.  | Dinner at Towers                              | Towers Cafeteria   | Evening Counselors                |
| 6:00 p.m.  | Xscape Room Challenge                         | Xscape! Morgantown | Xscape Staff                      |
| 8:00 p.m.  | Movie Night                                   | Towers Classroom   | Evening Counselors                |
| 11:00 p.m. | Lights Out                                    | Bennett Tower      |                                   |

### Thursday, June 22, 2017

| Time       | Activity   | Place            | Led By                 |
|------------|--|------------------|------------------------|
| 8:00 a.m.  | Breakfast  | Towers Cafeteria |                        |
| 9:00 a.m.  | Sphero Mission Challenge                               | G3 ESB           | Mrs. Cindy Tanner      |
| 12:00 p.m. | Working Lunch  | G3 ESB           | Day Time Counselors    |
| 1:00 p.m.  | Automated Butler with Arduinos                         | 205 MRB          | Dr. Brian Woerner      |
| 3:00 p.m.  | Qualsys Representative Presentation via Skype          | 120 AERB         | Qualsys Representative |
| 5:00 p.m.  | Dinner at Towers                                       | Towers Cafeteria | Evening Counselors     |
| 6:00 p.m.  | Evening at the Rec Center with Bubble Soccer and Zorbs | WVU Rec Center   | Evening Counselors     |
| 9:00 p.m.  | Free time in Dorm                                      | Bennett Tower    | Evening Counselors     |
| 11:00 p.m. | Lights Out   | Bennett Tower    |                        |

### Friday, June 23, 2017

| Time       | Activity  | Place                  | Led By                             |
|------------|---|------------------------|------------------------------------|
| 8:00 a.m.  | Breakfast   | Towers Cafeteria       |                                    |
| 9:00 a.m.  | Introduction to Biometrics and Walk through of Data Collection and Analysis | 306 AERB               | Dr. Jeremy Dawson- Lane Department |
| 10:30 a.m. | Biometric Activity  | G3 ESB                 | Brianna Maze- Noblis               |
| 12:00 p.m. | Pizza Party Lunch   | ESB Atrium             | Daytime Counselors                 |
| 1:00 p.m.  | Make Posters and Prepare Presentations                                      | ESB Atrium             | Daytime Counselors                 |
| 3:00 p.m.  | Poster Presentations  | G102 ESB               | Daytime Counselors                 |
| 4:00 p.m.  | End of Camp/Pick Up   | G102 ESB/Bennett Tower |                                    |