



**Computing,  
Electronics**

UNIVERSITY OF  
**Southampton**

**Robotics &  
Summer School**

University of Southampton  
Electronics and Computer Science  
12<sup>th</sup> August to 16<sup>th</sup> August 2019

| Monday 12 <sup>th</sup> August 2019 |                                                                                                                               |             |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|
| Time                                | Activity                                                                                                                      | Location    |
| 9:00                                | Course registration                                                                                                           | Glen Eyre   |
| 9:45                                | Supervisor briefing                                                                                                           | Dining Hall |
| 10:00                               | Walk to campus (to B58)                                                                                                       |             |
| 10:25                               | Housekeeping by Thai Son Hoang                                                                                                | B58/1067    |
| 10:30                               | Smallpeice welcome address by Jon Bowmer                                                                                      |             |
| 10:45                               | Welcome Address by Geoff Merrett, Director of Outreach and Marketing for ECS and Admissions Officer in Electronic Engineering |             |
| 11:00                               | SourceBots presentation: "How to build your robot"                                                                            |             |
| 11:55                               | Walk to Piazza                                                                                                                |             |
| 12:00                               | Lunch                                                                                                                         | Piazza      |
| 13:00                               | Walk to B59                                                                                                                   |             |
| 13:10                               | Workshop: Mechanics                                                                                                           | B59/2213    |
| 15:25                               | Walk to B53                                                                                                                   |             |
| 15:30                               | Break                                                                                                                         | B53/3028    |
| 15:45                               | Walk to B59                                                                                                                   |             |
| 15:50                               | Robot Hacking                                                                                                                 | B59/2213    |
| 17:50                               | Walk to Piazza                                                                                                                |             |
| 18:00                               | Dinner                                                                                                                        | Piazza      |
| 19:00                               | Walk to B58                                                                                                                   |             |
| 19:10                               | DVD night                                                                                                                     | B58/1067    |
| 21:30                               | Walk to Glen Eyre                                                                                                             |             |
| 22:00                               | Free time                                                                                                                     | Own blocks  |
| 22:15                               | Register with Supervisor and quiet time                                                                                       | Own rooms   |

| Tuesday 13 <sup>th</sup> August 2019 |                                                    |                                               |
|--------------------------------------|----------------------------------------------------|-----------------------------------------------|
| Time                                 | Activity                                           | Location                                      |
| 7:50                                 | Register with Supervisor                           | Glen Eyre                                     |
| 8:00                                 | Assemble and walk to Campus (Piazza)               |                                               |
| 8:25                                 | Breakfast                                          | Piazza                                        |
| 8:55                                 | Assemble and walk to B2                            |                                               |
| 9:00                                 | Academic Talk (TBA)                                | B2/1089                                       |
| 10:00                                | Walk to B53                                        |                                               |
| 10:10                                | Break                                              | B53/3028                                      |
| 10:25                                | Walk to B59                                        |                                               |
| 10:30                                | Optional Workshop:<br>Python (General programming) | Robot Hacking<br>(if not taking the workshop) |
|                                      |                                                    | B59/ L3 labs                                  |
| 11:50                                | Walk to Piazza                                     |                                               |
| 12:00                                | Lunch                                              | Piazza                                        |
| 13:00                                | Walk to B59                                        |                                               |
| 13:10                                | Workshop: Electronics                              | B59/2213                                      |
| 15:25                                | Walk to B53                                        |                                               |

|                                              |                                                             |                                                  |                    |                                 |
|----------------------------------------------|-------------------------------------------------------------|--------------------------------------------------|--------------------|---------------------------------|
| 15:30                                        | Break                                                       | B53/4025                                         |                    |                                 |
| 15:45                                        | Walk to B59                                                 |                                                  |                    |                                 |
| 15:50                                        | Robot Hacking                                               | B59/2213                                         |                    |                                 |
| 16:30                                        | Workshop: Python (Programming robots)                       | B59/ L3 labs                                     |                    |                                 |
| 17:35                                        | Walk to B38                                                 |                                                  |                    |                                 |
| 17:45                                        | BBQ                                                         | Staff Social Centre<br>B38 Terrace<br>Restaurant |                    |                                 |
| 19:00                                        | Coach to Bowling                                            | From Salisbury Road                              |                    |                                 |
| 19:30                                        | Bowling                                                     | Tenpin Southampton                               |                    |                                 |
| 21:30                                        | Coach to Glen Eyre                                          |                                                  |                    |                                 |
| 21:50                                        | Free Time                                                   | Own Block                                        |                    |                                 |
| 22:15                                        | Register with Supervisor and quiet time                     | Own room                                         |                    |                                 |
| <b>Wednesday 14<sup>th</sup> August 2019</b> |                                                             |                                                  |                    |                                 |
| <b>Time</b>                                  | <b>Activity</b>                                             | <b>Location</b>                                  |                    |                                 |
| 7:50                                         | Register with Supervisor                                    | Glen Eyre Halls                                  |                    |                                 |
| 8:00                                         | Assemble and walk to Campus (Piazza)                        |                                                  |                    |                                 |
| 8:25                                         | Breakfast                                                   | Piazza                                           |                    |                                 |
| 8:50                                         | Assemble and walk to B58                                    |                                                  |                    |                                 |
| 9:00                                         | Academic Talk by Denis Nicole: "Cyber Security and Hacking" | B58/1067                                         |                    |                                 |
| 10:00                                        | Walk to B53                                                 |                                                  |                    |                                 |
| 10:10                                        | Break                                                       | B53/3028                                         |                    |                                 |
| 10:25                                        | Walk to B59                                                 |                                                  |                    |                                 |
| 10:30                                        | Robot Hacking                                               |                                                  |                    |                                 |
| 11:50                                        | Walk to Piazza                                              |                                                  |                    |                                 |
| 12:00                                        | Lunch                                                       | Piazza                                           |                    |                                 |
| 13:00                                        | Walk to B53/59                                              |                                                  |                    |                                 |
| 13:10                                        | <a href="#">Tony Davis High Voltage Lab</a>                 | <a href="#">Nanofabrication clean rooms</a>      | Boldrewood UAV Lab | As per the group schedule below |
| 15:35                                        | Break                                                       | B53/3028                                         |                    |                                 |
| 15:50                                        | Walk to B59                                                 |                                                  |                    |                                 |
| 15:55                                        | Robot Hacking                                               | B59/2213                                         |                    |                                 |
| 17:50                                        | Walk to Piazza                                              |                                                  |                    |                                 |
| 18:00                                        | Dinner                                                      | Piazza                                           |                    |                                 |
| 19:00                                        | Walk to B59                                                 |                                                  |                    |                                 |
| 19:10                                        | Robot Hacking                                               | B59/2213                                         |                    |                                 |
| 21:00                                        | Walk to Glen Eyre Halls                                     |                                                  |                    |                                 |
| 21:30                                        | Free Time                                                   |                                                  |                    |                                 |
| 22:15                                        | Register with Supervisor and quiet time                     | Own rooms                                        |                    |                                 |

**Groups tour schedule in pre-allocated groups (max 10 students each)**

**(The groups will leave at 20 minutes apart as the tours are scheduled sequentially)**

| Time  | Groups 1&2       | Time  | Groups 3&4               |
|-------|------------------|-------|--------------------------|
|       |                  | 13:10 | Robot Hacking (B59/2213) |
|       |                  | 13:25 | Walk to Clean rooms      |
| 13:10 | Clean rooms      | 13:30 | Clean rooms              |
| 13:30 | Walk to TDHVL    | 13:50 | Walk to TDHVL            |
| 13:35 | TDHVL            | 13:55 | TDHVL                    |
| 13:55 | Walk to UAV Lab  | 14:15 | Walk to UAV Lab          |
| 14:05 | UAV Lab          | 14:25 | UAV Lab                  |
| 14:25 | Walk to B59/2213 | 14:45 | Walk to B59/2213         |
| 14:35 | Robot Hacking    | 14:55 | Robot Hacking            |
| 15:30 | Walk to B53/3028 | 15:30 | Walk to B53/3028         |

| Time  | Groups 5&6                | Time  | Groups 7&8               |
|-------|---------------------------|-------|--------------------------|
| 13:10 | Robot Hacking (B559/2213) | 13:10 | Robot Hacking (B59/2213) |
| 13:45 | Walk to Clean rooms       | 14:05 | Walk to Clean rooms      |

|       |                  |       |                  |
|-------|------------------|-------|------------------|
| 13:50 | Clean rooms      | 14:10 | Clean rooms      |
| 14:10 | Walk to TDHVL    | 14:30 | Walk to TDHVL    |
| 14:15 | TDHVL            | 14:35 | TDHVL            |
| 14:35 | Walk to UAV Lab  | 14:55 | Walk to UAV Lab  |
| 14:45 | UAV Lab          | 15:05 | UAV Lab          |
| 15:05 | Walk to B59/2213 | 15:25 | Walk to B53/3028 |
| 15:15 | Robot Hacking    |       |                  |
| 15:30 | Walk to B53/3028 |       |                  |

| Thursday 15 <sup>th</sup> August 2018 |                                                            |                     |
|---------------------------------------|------------------------------------------------------------|---------------------|
| Time                                  | Activity                                                   | Location            |
| 7:50                                  | Register with Supervisor                                   | Glen Eyre Halls     |
| 8:00                                  | Assemble and walk to Campus (Piazza)                       |                     |
| 8:25                                  | Breakfast                                                  | Piazza              |
| 8:50                                  | Assemble and walk to B58                                   |                     |
| 9:00                                  | Academic Talk by Jonathon Hare: "Teaching machine to see"  | B58/1067            |
| 10:00                                 | Robot Hacking                                              | B59/2213 / The Cube |
| 11:15                                 | Break                                                      | B53/3028            |
| 11:30                                 | Robot Hacking                                              | The Cube            |
| 12:30                                 | Lunch                                                      | Piazza              |
| 13:15                                 | Robot Hacking                                              | The Cube            |
| 15:00                                 | Break (catered by SUSU)                                    | Outside The Cube    |
| 15:15                                 | Robot Hacking                                              | The Cube            |
| 17:15                                 | Assemble & Walk to Glen Eyre Hall                          | -                   |
| 17:35                                 | Free time to dress for course dinner                       | Own room            |
| 18:30                                 | Assemble at Glen Eyre Hall + Walk to Garden Court Building | -                   |
| 19:00                                 | Drinks Reception                                           | B38 Harley Suite    |
| 19:30                                 | Course Formal Meal (Lightning Talks included)              |                     |
| 21:00                                 | Walk to Glen Eyre Hall                                     | -                   |
| 21:30                                 | Free Time                                                  |                     |
| 22:15                                 | Register with Supervisor and quiet time                    | Own room            |

| Friday 16 <sup>th</sup> August |                                                                                                                                |                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------|
| Time                           | Activity                                                                                                                       | Location         |
| 7:45                           | Register with Supervisor. Check out of rooms (hand in keys), assemble and walk to campus                                       | Glen Eyre Halls  |
| 8:20                           | Breakfast                                                                                                                      | Piazza           |
| 8:50                           | Assemble and walk to the Cube                                                                                                  | -                |
| 9:00                           | SourceBots: Competition Briefing                                                                                               | The Cube         |
| 9:15                           | Tinker Time                                                                                                                    | The Cube         |
| 10:30                          | Break (catered by SUSU)                                                                                                        | Outside The Cube |
| 10:45                          | Competition                                                                                                                    | The Cube         |
| 12:15                          | Lunch                                                                                                                          | Piazza           |
| 13:00                          | Competition                                                                                                                    | The Cube         |
| 14:15                          | Closing address and presentation of prizes by Professor Paul Lewin, Head of the Department of Electronics and Computer Science | The Cube         |
| 14:30                          | Depart                                                                                                                         |                  |