

























































































































































































| ID |  | Task Mode   | Task Name                       | Duration          | Start               | Finish              | Predecessors |
|----|---|---|---------------------------------|-------------------|---------------------|---------------------|--------------|
| 1  |   |  | <b>Project ACIS</b>             | <b>162 days</b>   | <b>Sun 12/17/17</b> | <b>Mon 5/28/18</b>  |              |
| 2  |  |  | <b>Get Started</b>              | <b>26.88 days</b> | <b>Sun 12/17/17</b> | <b>Fri 1/12/18</b>  |              |
| 3  |  |  | Create GitHub Repo              | 1 day             | Sun 12/17/17        | Sun 12/17/17        |              |
| 4  |  |  | Create GitHub Wiki              | 1 day             | Sun 12/17/17        | Sun 12/17/17        | 3            |
| 5  |  |  | Create GitHub Tasks             | 1 day             | Sun 12/17/17        | Sun 12/17/17        | 4            |
| 6  |  |  | <b>Meet With Adviser</b>        | <b>0.88 days</b>  | <b>Tue 12/19/17</b> | <b>Tue 12/19/17</b> |              |
| 7  |  |  | Add Meeting Notes               | 1 day             | Tue 12/19/17        | Tue 12/19/17        |              |
| 8  |  |  | <b>Meet With Sponsor</b>        | <b>2.88 days</b>  | <b>Wed 1/10/18</b>  | <b>Fri 1/12/18</b>  |              |
| 9  |  |  | Preparing Slides And Questions  | 2 days            | Wed 1/10/18         | Thu 1/11/18         |              |
| 10 |  |  | Add Meeting Notes               | 1 day             | Fri 1/12/18         | Fri 1/12/18         | 9            |
| 11 |  |  | <b>Plan</b>                     | <b>28.13 days</b> | <b>Fri 1/26/18</b>  | <b>Fri 2/23/18</b>  |              |
| 12 |  |  | <b>Requirements</b>             | <b>6 days</b>     | <b>Fri 1/26/18</b>  | <b>Wed 1/31/18</b>  |              |
| 13 |  |  | Write Project Schedule Draft    | 1 day             | Fri 1/26/18         | Fri 1/26/18         |              |
| 14 |  |  | Review Project Schedule Draft   | 1 day             | Sat 1/27/18         | Sat 1/27/18         | 13           |
| 15 |  |  | Revise Project Schedule Draft   | 1 day             | Sun 1/28/18         | Sun 1/28/18         | 14           |
| 16 |  |  | Review Revised Project Schedule | 1 day             | Mon 1/29/18         | Mon 1/29/18         | 15           |
| 17 |  |  | Approve Project Schedule        | 1 day             | Tue 1/30/18         | Tue 1/30/18         | 16           |
| 18 |  |  | Submit Project Schedule         | 1 day             | Wed 1/31/18         | Wed 1/31/18         | 17           |
| 19 |  |  | <b>Project Schedule</b>         | <b>2 days</b>     | <b>Sun 2/18/18</b>  | <b>Tue 2/20/18</b>  |              |
| 20 |  |  | Write Project Schedule Draft    | 1 day             | Sun 2/18/18         | Sun 2/18/18         |              |
| 21 |  |  | Review Project Schedule Draft   | 1 day             | Sun 2/18/18         | Mon 2/19/18         | 20           |
| 22 |  |  | Revise Project Schedule Draft   | 1 day             | Mon 2/19/18         | Mon 2/19/18         | 21           |
| 23 |  |  | Review Revised Project Schedule | 1 day             | Mon 2/19/18         | Mon 2/19/18         | 22           |

|  |                    |   |                       |   |                    |   |
|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |




















| ID |  | Task Mode   | Task Name  | Duration         | Start              | Finish             | Predecessors |
|----|---|---|--|------------------|--------------------|--------------------|--------------|
| 24 |  |  | Approve Project Schedule                           | 1 day            | Mon 2/19/18        | Tue 2/20/18        | 23           |
| 25 |  |  | Submit Project Schedule                            | 1 day            | Tue 2/20/18        | Tue 2/20/18        | 24           |
| 26 |  |  | <b>Block Diagram</b>                               | <b>6.13 days</b> | <b>Sat 2/17/18</b> | <b>Fri 2/23/18</b> |              |
| 27 |  |  | Create High Level Block Diagram                    | 1.13 days        | Sat 2/17/18        | Sat 2/17/18        |              |
| 28 |  |  | Create Component Level Block Diagram               | 1 day            | Sat 2/17/18        | Sun 2/18/18        | 27           |
| 29 |  |  | Create Motor Block Diagram                         | 0.63 days        | Sun 2/18/18        | Sun 2/18/18        | 28           |
| 30 |  |  | Create Sensor Sensor Block Diagram                 | 1 day            | Sun 2/18/18        | Mon 2/19/18        | 29           |
| 31 |  |  | Create Processor Block Diagram                     | 0.63 days        | Mon 2/19/18        | Mon 2/19/18        | 30           |
| 32 |  |  | Create Lights Block Diagram                        | 1 day            | Mon 2/19/18        | Tue 2/20/18        | 31           |
| 33 |  |  | Create Software Block Diagram                      | 0.63 days        | Tue 2/20/18        | Tue 2/20/18        | 32           |
| 34 |  |  | Review Block Diagrams                              | 1 day            | Tue 2/20/18        | Wed 2/21/18        | 33           |
| 35 |  |  | Revise Block Diagrams                              | 1.88 days        | Wed 2/21/18        | Wed 2/21/18        | 34           |
| 36 |  |  | Approve Block Diagrams                             | 2 days           | Wed 2/21/18        | Thu 2/22/18        | 35           |
| 37 |  |  | Submit Block Diagrams                              | 1.13 days        | Thu 2/22/18        | Fri 2/23/18        | 36           |
| 38 |   |  | <b>Barcode Detection</b>                           | <b>32 days</b>   | <b>Thu 2/1/18</b>  | <b>Sun 3/4/18</b>  |              |
| 39 |  |  | Research Barcode Detection Libraries               | 10 days          | Thu 2/1/18         | Fri 2/9/18         |              |
| 40 |  |  | Prototype OpenCV Barcode Detection                 | 3.88 days        | Fri 2/9/18         | Sun 2/11/18        | 39           |
| 41 |  |  | Finalize OpenCV Barcode Detection                  | 2 days           | Sat 3/3/18         | Sun 3/4/18         | 40           |
| 42 |   |  | <b>Image Stitching</b>                             | <b>59 days</b>   | <b>Sat 1/13/18</b> | <b>Mon 3/12/18</b> |              |
| 43 |  |  | Research Methods To Use OpenCV For Image Stitching | 21 days          | Sat 1/13/18        | Fri 2/2/18         |              |
| 44 |  |  | Prototype OpenCV Image Stitching                   | 2 days           | Sat 2/10/18        | Sun 2/11/18        | 43           |
| 45 |  |  | Finalize OpenCV Image Stitching                    | 3 days           | Sat 3/10/18        | Mon 3/12/18        | 44           |
| 46 |   |  | <b>Defect Detection</b>                            | <b>91 days</b>   | <b>Wed 1/3/18</b>  | <b>Tue 4/3/18</b>  |              |

|  |                    |   |                       |   |                    |   |
|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |




















| ID |  | Task Mode   | Task Name  | Duration          | Start              | Finish             | Predecessors |
|----|---|---|--|-------------------|--------------------|--------------------|--------------|
| 47 |  |  | Research OpenCV Defect Detection                   | 2 days            | Wed 1/3/18         | Thu 1/4/18         |              |
| 48 |   |  | Prototype OpenCV Defect Detection                  | 5 days            | Fri 1/5/18         | Tue 1/9/18         | 47           |
| 49 |  |  | Finalize OpenCV Defect Detection                   | 3 days            | Sun 4/1/18         | Tue 4/3/18         | 48           |
| 50 |   |  | <b>Main Application</b>                            | <b>6 days</b>     | <b>Thu 3/29/18</b> | <b>Wed 4/4/18</b>  |              |
| 51 |  |  | Research What Control Should Main Application Have | 2 days            | Thu 3/29/18        | Fri 3/30/18        |              |
| 52 |  |  | Design Main Application                            | 6 days            | Fri 3/30/18        | Sun 4/1/18         | 51           |
| 53 |  |  | Design The Different components Of The Application | 1 day             | Sun 4/1/18         | Sun 4/1/18         | 52           |
| 54 |  |  | Design Config File                                 | 1 day             | Sun 4/1/18         | Sun 4/1/18         | 53           |
| 55 |  |  | Design The Interface Between The Classes           | 1 day             | Sun 4/1/18         | Mon 4/2/18         | 54           |
| 56 |  |  | Prototype Main Application                         | 5 days            | Mon 4/2/18         | Tue 4/3/18         | 55           |
| 57 |   |  | Finalize Main Application                          | 2 days            | Tue 4/3/18         | Wed 4/4/18         | 56           |
| 58 |   |  | <b>Magazine</b>                                    | <b>18.75 days</b> | <b>Wed 3/28/18</b> | <b>Sun 4/15/18</b> |              |
| 59 |  |  | Research Magazine Design                           | 2 days            | Wed 3/28/18        | Thu 3/29/18        |              |
| 60 |  |  | Design The Magazine                                | 1 day             | Thu 3/29/18        | Fri 3/30/18        | 59           |
| 61 |  |  | Design Safety Locks                                | 1 day             | Fri 3/30/18        | Sat 3/31/18        | 60           |
| 62 |  |  | Design CPU Holding Frame                           | 1 day             | Sat 3/31/18        | Sat 3/31/18        | 61           |
| 63 |  |  | Design Magazine Movement                           | 1 day             | Sat 3/31/18        | Sat 3/31/18        | 62           |
| 64 |  |  | Design Magazine Loading Mechanism                  | 1 day             | Sat 3/31/18        | Sun 4/1/18         | 63           |
| 65 |  |  | Research Magazine Parts                            | 2 days            | Sun 4/1/18         | Sun 4/1/18         | 64           |
| 66 |  |  | Order Magazine Parts                               | 1 day             | Sun 4/1/18         | Mon 4/2/18         | 65           |
| 67 |  |  | Prototype Magazine                                 | 5 days            | Mon 4/9/18         | Fri 4/13/18        | 66           |
| 68 |   |  | Finalize Magazine                                  | 2.75 days         | Fri 4/13/18        | Sun 4/15/18        | 67           |
| 69 |   |  | <b>Frame</b>                                       | <b>88 days</b>    | <b>Sat 1/27/18</b> | <b>Wed 4/25/18</b> |              |





|  |                    |   |                       |   |                    |   |
|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |




















| ID |    | Task Mode   | Task Name                      | Duration        | Start             | Finish             | Predecessors |
|----|---|---|--------------------------------|-----------------|-------------------|--------------------|--------------|
| 70 |    |    | Design The Frame               | 4 days          | Sat 1/27/18       | Sun 1/28/18        |              |
| 71 |    |    | Research Frame Parts           | 1 day           | Sun 1/28/18       | Mon 1/29/18        | 70           |
| 72 |    |    | Order Frame Parts              | 2 days          | Mon 1/29/18       | Mon 1/29/18        | 71           |
| 73 |    |    | Prototype Frame                | 5 days          | Mon 3/5/18        | Wed 3/7/18         |              |
| 74 |    |    | Finalize Frame Build           | 5 days          | Mon 4/23/18       | Wed 4/25/18        |              |
| 75 |    |    | <b>Lighting</b>                | <b>11 days</b>  | <b>Fri 4/6/18</b> | <b>Mon 4/16/18</b> |              |
| 76 |    |    | Research Lighting              | 1 day           | Fri 4/6/18        | Fri 4/6/18         |              |
| 77 |    |    | Design Lighting                | 2 days          | Fri 4/6/18        | Sat 4/7/18         | 76           |
| 78 |    |    | Order Lighting Parts           | 1 day           | Sat 4/7/18        | Sun 4/8/18         | 77           |
| 79 |    |    | Prototype Lighting Parts       | 2 days          | Sat 4/14/18       | Sun 4/15/18        |              |
| 80 |    |    | Finalize Lighting              | 2 days          | Sun 4/15/18       | Mon 4/16/18        | 79           |
| 81 |    |    | <b>Enclosure</b>               | <b>9 days</b>   | <b>Sun 4/1/18</b> | <b>Tue 4/10/18</b> |              |
| 82 |    |    | Research Enclosure Material    | 1 day           | Sun 4/1/18        | Sun 4/1/18         |              |
| 83 |    |    | Design Enclosure               | 3 days          | Sun 4/1/18        | Mon 4/2/18         | 82           |
| 84 |    |    | Order Enclosure Material       | 1 day           | Sun 4/8/18        | Sun 4/8/18         | 83           |
| 85 |    |    | Prototype Enclosure            | 2 days          | Mon 4/9/18        | Tue 4/10/18        | 84           |
| 86 |    |    | Finalize Enclosure             | 1 day           | Tue 4/10/18       | Tue 4/10/18        | 85           |
| 87 |    |    | <b>Motor</b>                   | <b>104 days</b> | <b>Mon 1/1/18</b> | <b>Sat 4/14/18</b> |              |
| 88 |    |    | Research Arduino Motor Control | 5 days          | Mon 1/1/18        | Fri 1/5/18         |              |
| 89 |    |    | Design Stepper Motor Placement | 1 day           | Sun 1/28/18       | Sun 1/28/18        | 88           |
| 90 |   |   | Choose Motors                  | 2 days          | Mon 1/29/18       | Tue 1/30/18        | 89           |
| 91 |  |  | Order Motors                   | 1 day           | Tue 1/30/18       | Tue 1/30/18        | 90           |
| 92 |  |  | Prototype Motor Drivers        | 5 days          | Thu 4/5/18        | Mon 4/9/18         | 91           |





























|  |                    |   |                       |   |                    |   |
|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |

| ID  |  | Task Mode   | Task Name  | Duration         | Start              | Finish             | Predecessors |
|-----|---|---|--|------------------|--------------------|--------------------|--------------|
| 93  |  |  | Finalize Motor Driver                                    | 5 days           | Tue 4/10/18        | Sat 4/14/18        | 92           |
| 94  |   |  | <b>Image Capturing</b>                                   | <b>9.88 days</b> | <b>Wed 3/28/18</b> | <b>Fri 4/6/18</b>  |              |
| 95  |  |  | Research Camera  | 1 day            | Wed 3/28/18        | Wed 3/28/18        |              |
| 96  |  |  | Order Camera   | 1 day            | Wed 4/4/18         | Wed 4/4/18         | 95           |
| 97  |  |  | Finalize Image Capturing                                 | 2 days           | Thu 4/5/18         | Fri 4/6/18         | 96           |
| 98  |  |  | <b>Communication Between Arduino And Pc</b>              | <b>2.88 days</b> | <b>Wed 4/25/18</b> | <b>Fri 4/27/18</b> |              |
| 99  |  |  | Design The Protocol Between Main Application And Arduino | 3 days           | Wed 4/25/18        | Thu 4/26/18        |              |
| 100 |  |  | Prototype Communication Between Arduino And Pc           | 2 days           | Thu 4/26/18        | Fri 4/27/18        | 99           |
| 101 |  |  | Finalize Communication Between Pc And Arduino            | 2 days           | Fri 4/27/18        | Fri 4/27/18        | 100          |
| 102 |  |  | <b>Power Supply</b>                                      | <b>18 days</b>   | <b>Sat 4/7/18</b>  | <b>Wed 4/25/18</b> |              |
| 103 |  |  | Calculate Power Requirements Based On Parts              | 2 days           | Sat 4/7/18         | Sun 4/8/18         |              |
| 104 |  |  | Research Power Supply                                    | 2 days           | Sun 4/8/18         | Mon 4/9/18         | 103          |
| 105 |  |  | Order Power Supply                                       | 1 day            | Mon 4/16/18        | Mon 4/16/18        | 104          |
| 106 |  |  | Test Power Supply  | 2 days           | Mon 4/23/18        | Tue 4/24/18        | 105          |
| 107 |  |  | Finalize Power Supply                                    | 1 day            | Tue 4/24/18        | Wed 4/25/18        | 106          |
| 108 |   |  | <b>Safety Locks</b>                                      | <b>12 days</b>   | <b>Mon 4/23/18</b> | <b>Fri 5/4/18</b>  |              |
| 109 |  |  | Research Safety Locks                                    | 2 days           | Mon 4/23/18        | Tue 4/24/18        |              |
| 110 |   |  | Order Safety Locks Parts                                 | 1 day            | Wed 4/25/18        | Wed 4/25/18        | 109          |
| 111 |  |  | Prototype Safety Locks                                   | 1 day            | Thu 5/3/18         | Thu 5/3/18         | 110          |
| 112 |   |  | Finalize Safety Locks                                    | 1 day            | Fri 5/4/18         | Fri 5/4/18         | 111          |
| 113 |  |  | <b>Sensors</b>   | <b>5 days</b>    | <b>Sun 3/18/18</b> | <b>Thu 3/22/18</b> |              |
| 114 |  |  | Research Sensors   | 2 days           | Sun 3/18/18        | Mon 3/19/18        |              |
| 115 |  |  | Order Sensors  | 1 day            | Tue 3/20/18        | Tue 3/20/18        | 114          |




















|  |                    |   |                       |   |                    |   |
|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |

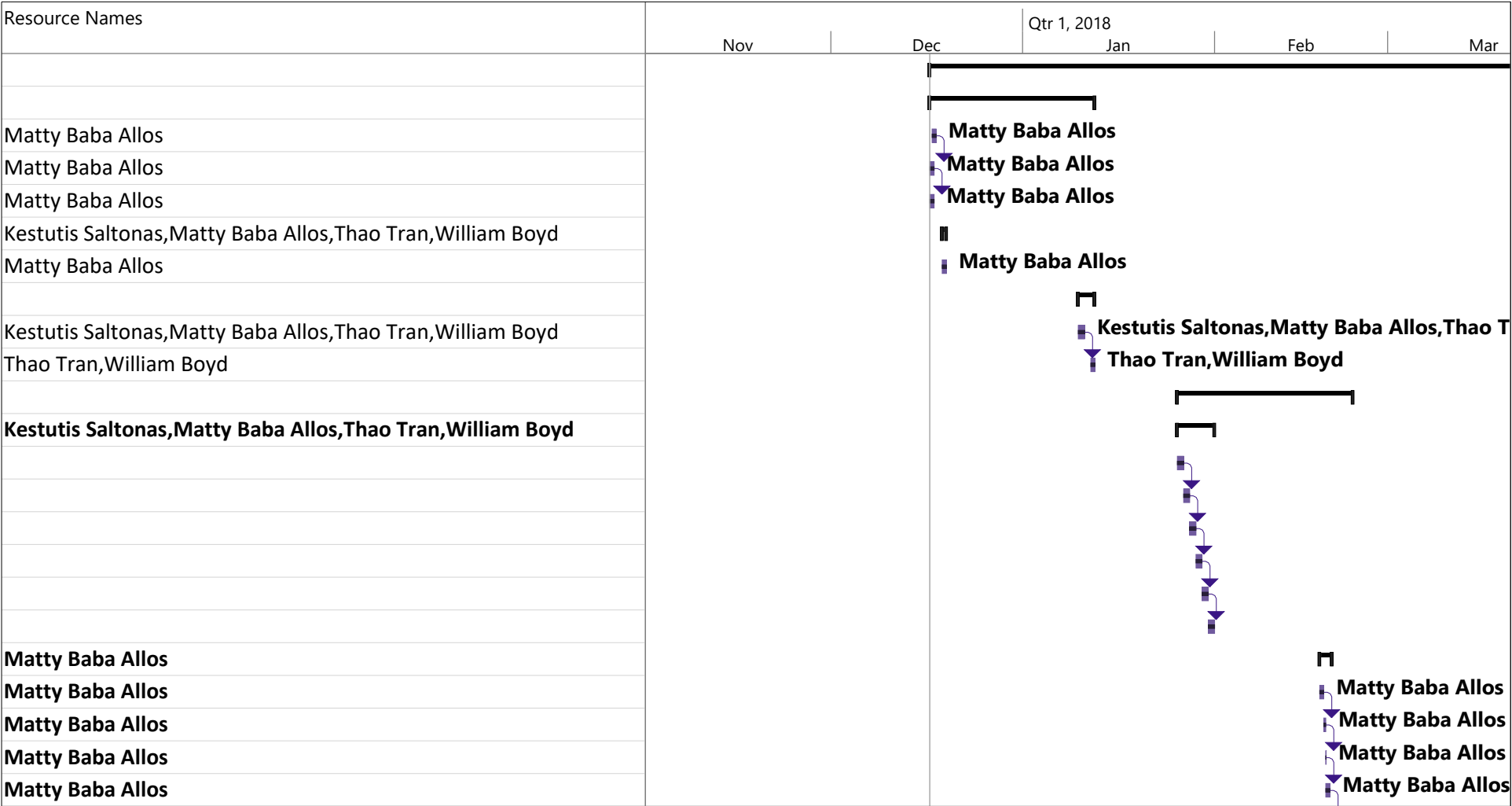
| ID  |  | Task Mode   | Task Name                                      | Duration         | Start              | Finish             | Predecessors |
|-----|---|---|--|------------------|--------------------|--------------------|--------------|
| 116 |  |  | Prototype Sensors Software                     | 1 day            | Wed 3/21/18        | Wed 3/21/18        | 115          |
| 117 |  |  | Finalize Sensors                               | 1 day            | Thu 3/22/18        | Thu 3/22/18        | 116          |
| 118 |  |  | <b>First Term Project Assessment</b>           | <b>2.25 days</b> | <b>Fri 3/23/18</b> | <b>Sun 3/25/18</b> |              |
| 119 |  |  | Write First Term Project Assessment Draft      | 1.13 days        | Fri 3/23/18        | Fri 3/23/18        |              |
| 120 |  |  | Review First Term Project Assessment Draft     | 0.5 days         | Fri 3/23/18        | Sat 3/24/18        | 119          |
| 121 |  |  | Revise First Term Project Assessment Draft     | 0.25 days        | Sat 3/24/18        | Sat 3/24/18        | 120          |
| 122 |  |  | Review First Term Project Assessment Document  | 0.38 days        | Sat 3/24/18        | Sat 3/24/18        | 121          |
| 123 |  |  | Approve First Term Project Assessment Document | 0.25 days        | Sat 3/24/18        | Sat 3/24/18        | 122          |
| 124 |  |  | Submit First Term Project Assessment Document  | 0.5 days         | Sat 3/24/18        | Sun 3/25/18        | 123          |
| 125 |   |  | <b>Test</b>                                    | <b>3 days</b>    | <b>Mon 4/30/18</b> | <b>Thu 5/3/18</b>  |              |
| 126 |  |  | Unit Testing                                   | 2 days           | Mon 4/30/18        | Tue 5/1/18         |              |
| 127 |   |  | UI Testing                                     | 2 days           | Tue 5/1/18         | Tue 5/1/18         | 126          |
| 128 |   |  | Integration Testing                            | 2 days           | Tue 5/1/18         | Wed 5/2/18         | 127          |
| 129 |   |  | System Testing                                 | 2 days           | Wed 5/2/18         | Thu 5/3/18         | 128          |
| 130 |   |  | <b>Product Documentation</b>                   | <b>5 days</b>    | <b>Sun 5/6/18</b>  | <b>Thu 5/10/18</b> |              |
| 131 |  |  | Write Product Documentation Draft              | 1.13 days        | Sun 5/6/18         | Sun 5/6/18         |              |
| 132 |   |  | Review Product Documentation Draft             | 2 days           | Sun 5/6/18         | Mon 5/7/18         | 131          |
| 133 |   |  | Revise Product Documentation Draft             | 2 days           | Mon 5/7/18         | Tue 5/8/18         | 132          |
| 134 |   |  | Review Product Documentation Schedule          | 2 days           | Tue 5/8/18         | Wed 5/9/18         | 133          |
| 135 |   |  | Approve Product Documentation                  | 2 days           | Wed 5/9/18         | Thu 5/10/18        | 134          |
| 136 |   |  | Submit Product Documentation                   | 0 days           | Thu 5/10/18        | Thu 5/10/18        | 135          |
| 137 |   |  | <b>Project Report</b>                          | <b>10 days</b>   | <b>Mon 5/14/18</b> | <b>Wed 5/23/18</b> |              |
| 138 |  |  | Write Project Report Draft                     | 3 days           | Mon 5/14/18        | Tue 5/15/18        |              |

|  |                    |   |                       |   |                    |   |
|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |

| ID  |  | Task Mode   | Task Name                                      | Duration       | Start              | Finish             | Predecessors |
|-----|---|---|--|----------------|--------------------|--------------------|--------------|
| 139 |   |  | Review Project Report Draft                    | 3.88 days      | Tue 5/15/18        | Thu 5/17/18        | 138          |
| 140 |   |  | Revise Project Report Draft                    | 3.88 days      | Thu 5/17/18        | Sat 5/19/18        | 139          |
| 141 |   |  | Review Project Report Document                 | 3.88 days      | Sat 5/19/18        | Mon 5/21/18        | 140          |
| 142 |   |  | Approve Project Report Document                | 3.88 days      | Mon 5/21/18        | Wed 5/23/18        | 141          |
| 143 |   |  | Submit Project Report Document                 | 0 days         | Wed 5/23/18        | Wed 5/23/18        | 142          |
| 144 |   |  | <b>Final Project Assessment</b>                | <b>13 days</b> | <b>Mon 5/14/18</b> | <b>Sat 5/26/18</b> |              |
| 145 |  |  | Write Final Term Project Assessment Draft      | 8 days         | Mon 5/14/18        | Fri 5/18/18        |              |
| 146 |   |  | Review Final Term Project Assessment Draft     | 3.88 days      | Fri 5/18/18        | Sun 5/20/18        | 145          |
| 147 |   |  | Revise Final Term Project Assessment Draft     | 3.88 days      | Sun 5/20/18        | Tue 5/22/18        | 146          |
| 148 |   |  | Review Final Term Project Assessment Document  | 3.88 days      | Tue 5/22/18        | Thu 5/24/18        | 147          |
| 149 |   |  | Approve Final Term Project Assessment Document | 3.88 days      | Thu 5/24/18        | Sat 5/26/18        | 148          |
| 150 |   |  | Submit Final Term Project Assessment Document  | 0 days         | Sat 5/26/18        | Sat 5/26/18        | 149          |
| 151 |  |  | <b>Project Poster</b>                          | <b>27 days</b> | <b>Tue 5/1/18</b>  | <b>Mon 5/28/18</b> |              |
| 152 |  |  | Design Project Poster                          | 3 days         | Tue 5/1/18         | Wed 5/2/18         |              |
| 153 |  |  | Do Project Poster                              | 7 days         | Wed 5/2/18         | Sun 5/6/18         | 152          |
| 154 |  |  | Revise Project Poster                          | 2 days         | Sun 5/6/18         | Mon 5/7/18         | 153          |
| 155 |  |  | Review Project Poster                          | 1 day          | Mon 5/7/18         | Tue 5/8/18         | 154          |
| 156 |  |  | Approve Project Poster                         | 0.63 days      | Tue 5/8/18         | Tue 5/8/18         | 155          |
| 157 |  |  | Submit Project Poster                          | 0 days         | Mon 5/28/18        | Mon 5/28/18        | 156          |

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|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |



|  |                    |  |                       |  |                    |  |
|--|--------------------|--|-----------------------|--|--------------------|--|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
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|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |  |
|  | Inactive Milestone |  | Finish-only           |  |                    |  |



| Resource Names                                 |  | Nov | Dec | Qtr 1, 2018 | Jan | Feb                                       | Mar |
|--|--|-----|-----|-------------|-----|---|-----|
| <b>Matty Baba Allos</b>                        |  |     |     |             |     | Matty Baba Allos                          |     |
| <b>Matty Baba Allos</b>                        |  |     |     |             |     | Matty Baba Allos                          |     |
| <b>Matty Baba Allos,Thao Tran,William Boyd</b> |  |     |     |             |     | Matty Baba Allos, Thao Tran, William Boyd |     |
| William Boyd,Thao Tran                         |  |     |     |             |     | William Boyd, Thao Tran                   |     |
| William Boyd,Thao Tran                         |  |     |     |             |     | William Boyd, Thao Tran                   |     |
| William Boyd,Thao Tran                         |  |     |     |             |     | William Boyd, Thao Tran                   |     |
| William Boyd,Thao Tran                         |  |     |     |             |     | William Boyd, Thao Tran                   |     |
| William Boyd,Thao Tran                         |  |     |     |             |     | William Boyd, Thao Tran                   |     |
| William Boyd,Thao Tran                         |  |     |     |             |     | William Boyd, Thao Tran                   |     |
| William Boyd,Thao Tran                         |  |     |     |             |     | William Boyd, Thao Tran                   |     |
| Matty Baba Allos                               |  |     |     |             |     | Matty Baba Allos                          |     |
| William Boyd,Thao Tran                         |  |     |     |             |     | William Boyd, Thao Tran                   |     |
| Matty Baba Allos                               |  |     |     |             |     | Matty Baba Allos                          |     |
| Matty Baba Allos,Thao Tran,William Boyd        |  |     |     |             |     | Matty Baba Allos, Thao Tran, William Boyd |     |
| <b>Kestutis Saltonas,Matty Baba Allos</b>      |  |     |     |             |     | Kestutis Saltonas, Matty Baba Allos       |     |
| Kestutis Saltonas,Matty Baba Allos             |  |     |     |             |     | Kestutis Saltonas, Matty Baba Allos       |     |
| Kestutis Saltonas,Matty Baba Allos             |  |     |     |             |     | Kestutis Saltonas, Matty Baba Allos       |     |
| Kestutis Saltonas                              |  |     |     |             |     | Kestutis Saltonas                         |     |
| <b>Kestutis Saltonas</b>                       |  |     |     |             |     | Kestutis Saltonas                         |     |
| Kestutis Saltonas                              |  |     |     |             |     | Kestutis Saltonas                         |     |
| Kestutis Saltonas                              |  |     |     |             |     | Kestutis Saltonas                         |     |
| Kestutis Saltonas                              |  |     |     |             |     | Kestutis Saltonas                         |     |
| <b>Kestutis Saltonas</b>                       |  |     |     |             |     | Kestutis Saltonas                         |     |

Project: Schedule

Date: Sat 6/16/18

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

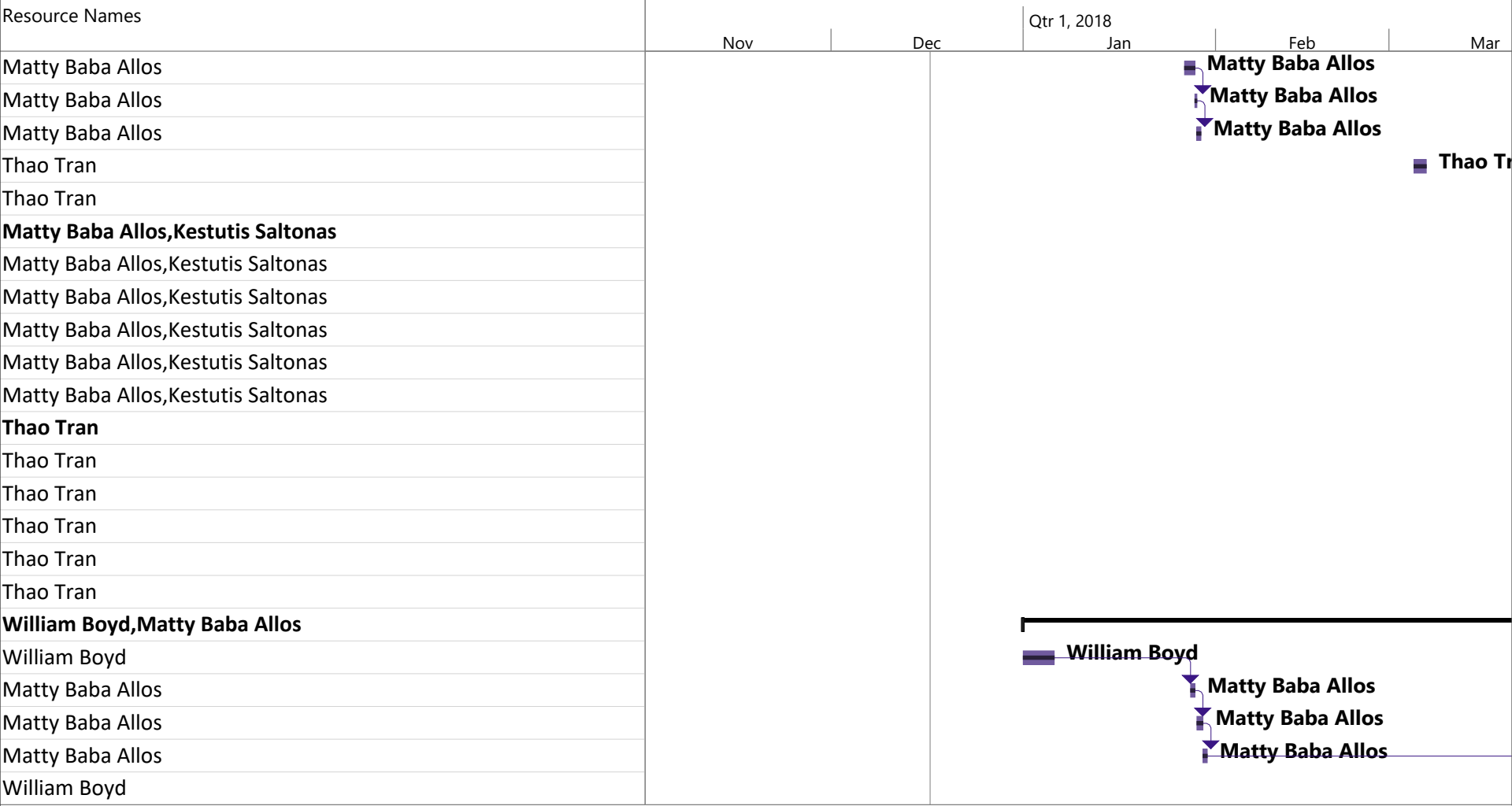
Deadline




















Progress

Manual Progress

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|  |                    |   |                       |   |                    |   |
|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |





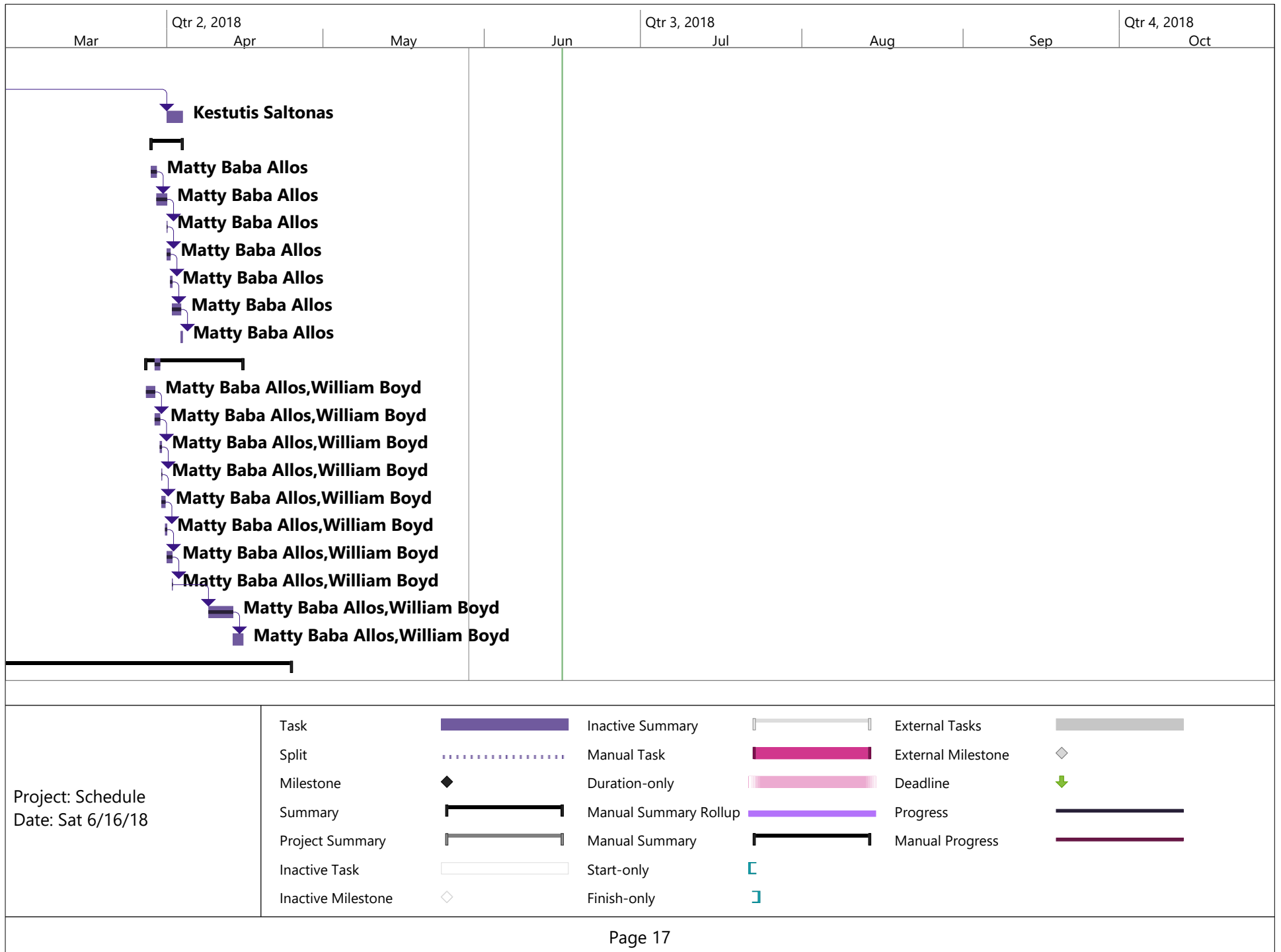


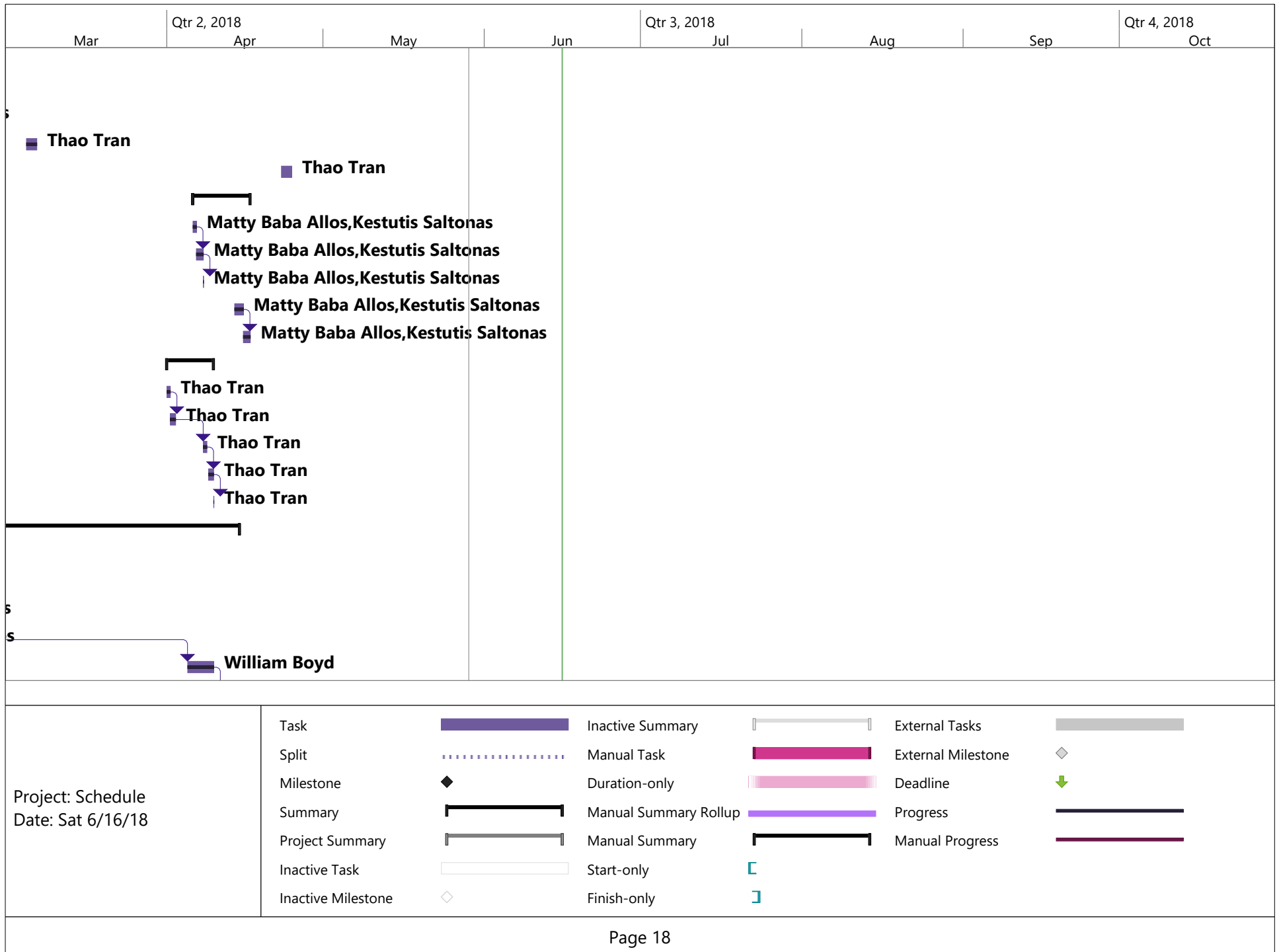


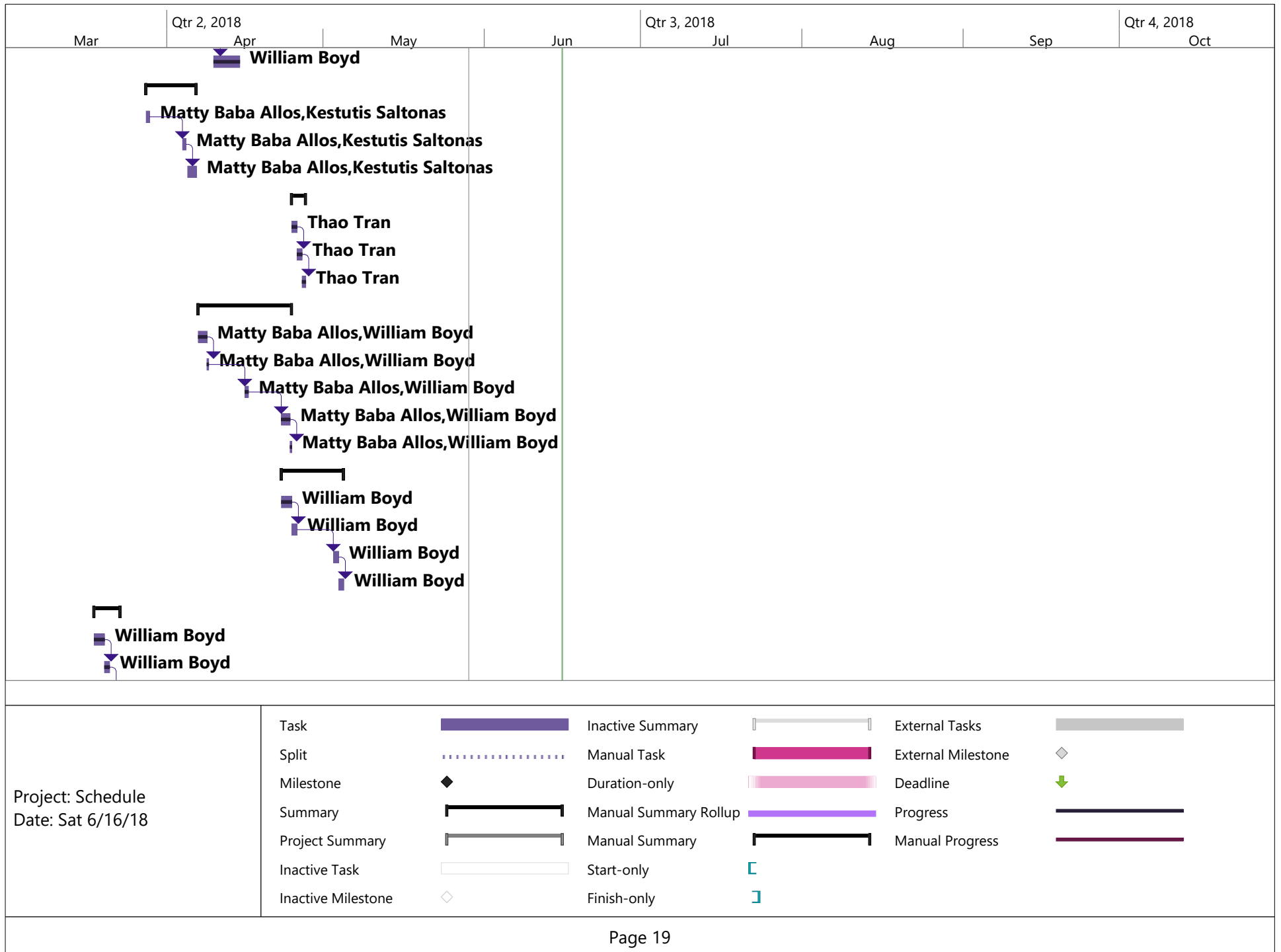
**Project: Schedule**  
Date: Sat 6/16/18

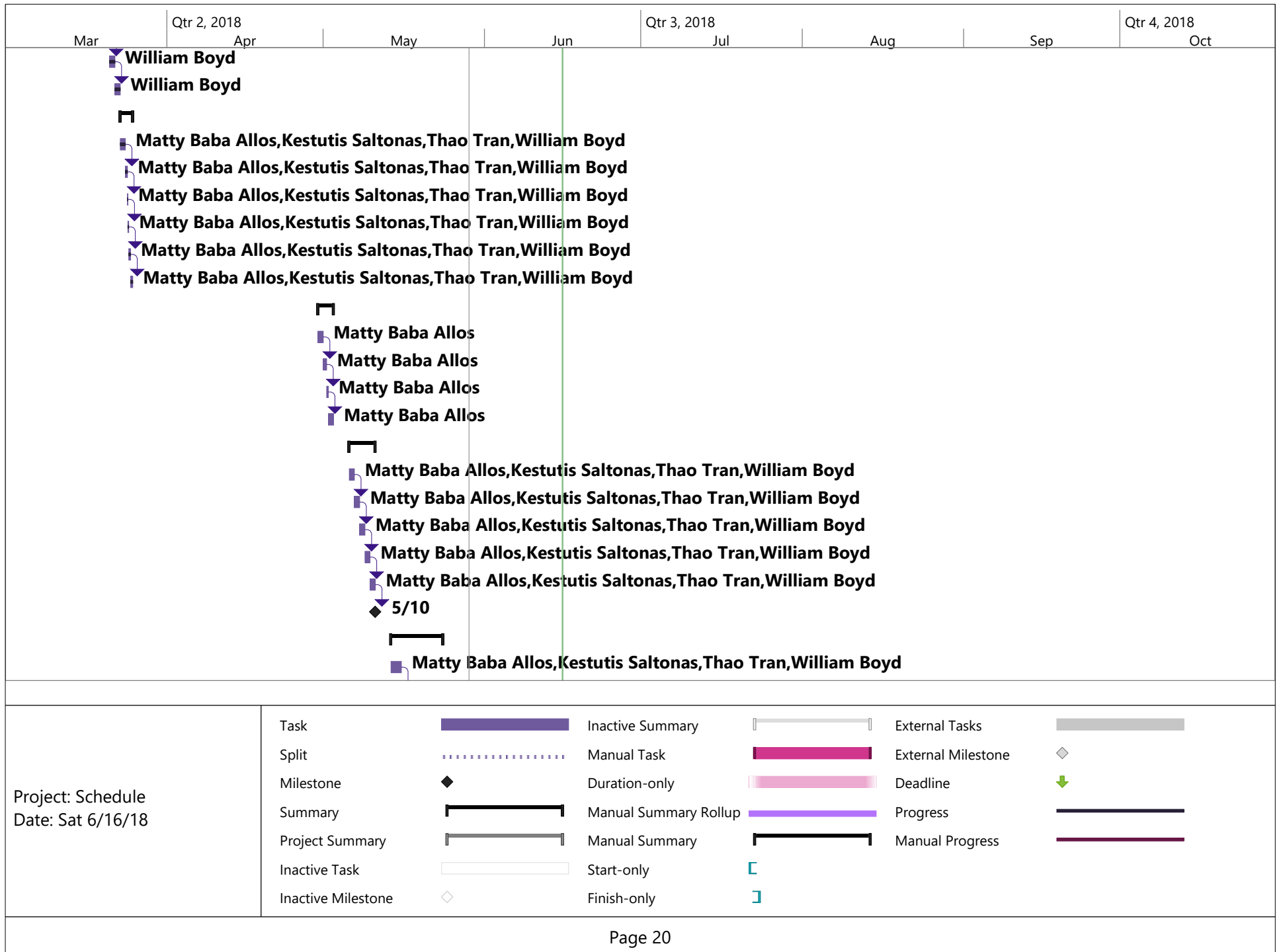
| Task               | Symbol | Task                  | Symbol | Task               | Symbol |
|--------------------|--------|-----------------------|--------|--------------------|--------|
| Task               |        | Inactive Summary      |        | External Tasks     |        |
| Split              |        | Manual Task           |        | External Milestone |        |
| Milestone          |        | Duration-only         |        | Deadline           |        |
| Summary            |        | Manual Summary Rollup |        | Progress           |        |
| Project Summary    |        | Manual Summary        |        | Manual Progress    |        |
| Inactive Task      |        | Start-only            |        |                    |        |
| Inactive Milestone |        | Finish-only           |        |                    |        |













Qtr 4, 2018

Oct

Nov

Dec

Qtr 1, 2019

Jan

Feb

Mar

Qtr 2, 2019

Apr

May

Project: Schedule  
Date: Sat 6/16/18

Task



Inactive Summary



External Tasks



Split



Manual Task



External Milestone



Milestone



Duration-only



Deadline



Summary



Manual Summary Rollup



Progress



Project Summary



Manual Summary



Manual Progress



Inactive Task



Start-only



Inactive Milestone



Finish-only



Project: Schedule  
Date: Sat 6/16/18

### Task



Inactive Summary



## External Tasks



Split



Manual Task



### External Milestone



## Milestone



Duration-only



Deadline



## Summary



Manual Summary Rollup



## Progress



## Project Summary



Manual Summary



Manual Progress






















Inactive Task

Start-only





|  |                    |   |                       |   |                    |   |
|--|--------------------|---|-----------------------|---|--------------------|---|
| Project: Schedule<br>Date: Sat 6/16/18 | Task               |  | Inactive Summary      |  | External Tasks     |  |
|  | Split              |  | Manual Task           |  | External Milestone |  |
|  | Milestone          |  | Duration-only         |  | Deadline           |  |
|  | Summary            |  | Manual Summary Rollup |  | Progress           |  |
|  | Project Summary    |  | Manual Summary        |  | Manual Progress    |  |
|  | Inactive Task      |  | Start-only            |  |                    |   |
|  | Inactive Milestone |  | Finish-only           |  |                    |   |



Project: Schedule  
Date: Sat 6/16/18

### Task



Inactive Summary



## External Tasks



Split



Manual Task



### External Milestone



## Milestone



Duration-only



Deadline



## Summary



Manual Summary Rollup



## Progress



## Project Summary



Manual Summary



Manual Progress



Inactive Task

Start-only



Finish-only



Qtr 4, 2018

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Mar

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May

Project: Schedule  
Date: Sat 6/16/18

Task



Inactive Summary



External Tasks



Split



Manual Task



External Milestone



Milestone



Duration-only



Deadline



Summary



Manual Summary Rollup



Progress



Project Summary



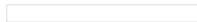
Manual Summary



Manual Progress



Inactive Task



Start-only



Inactive Milestone



Finish-only





Qtr 4, 2018

Oct

Nov

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Jan

Feb

Mar

Qtr 2, 2019

Apr

May

Project: Schedule  
Date: Sat 6/16/18

Task



Inactive Summary



External Tasks



Split



Manual Task



External Milestone



Milestone



Duration-only



Deadline



Summary



Manual Summary Rollup



Progress



Project Summary



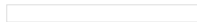
Manual Summary



Manual Progress



Inactive Task



Start-only



Inactive Milestone



Finish-only

