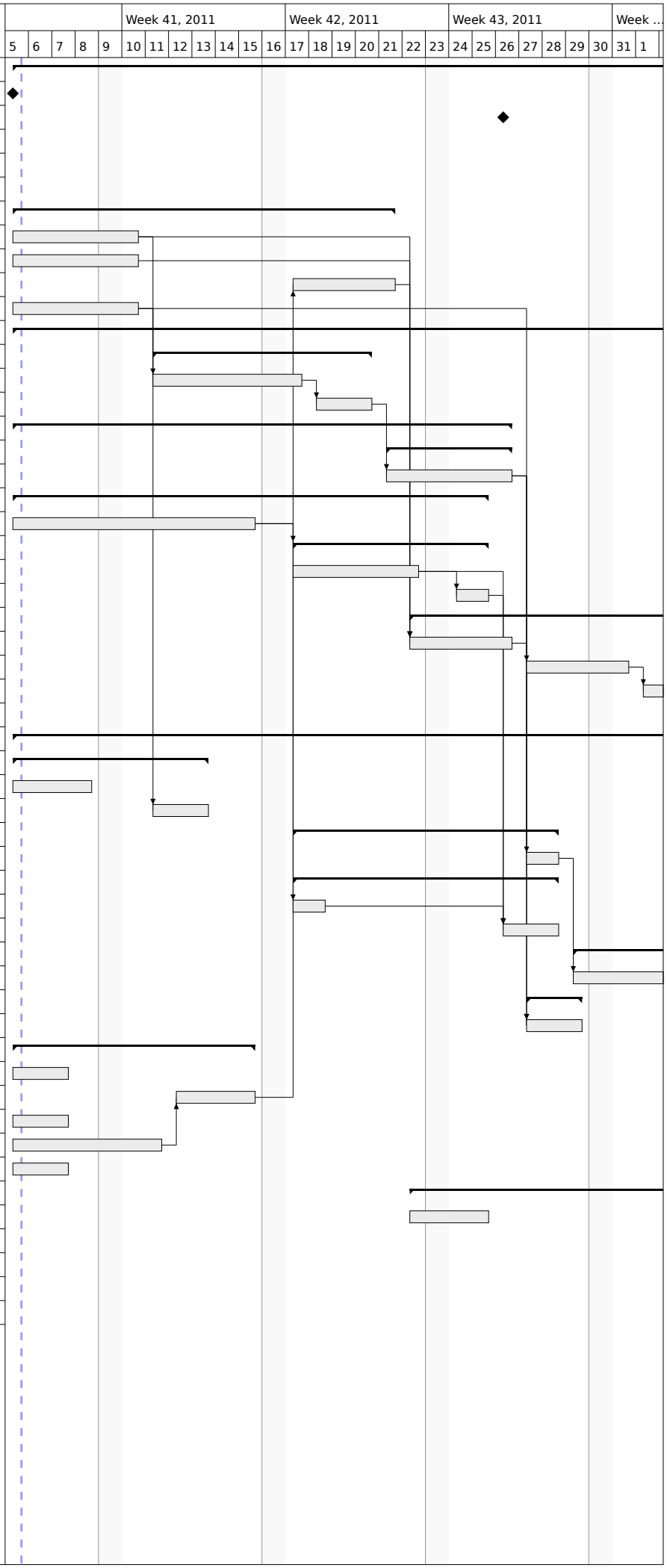
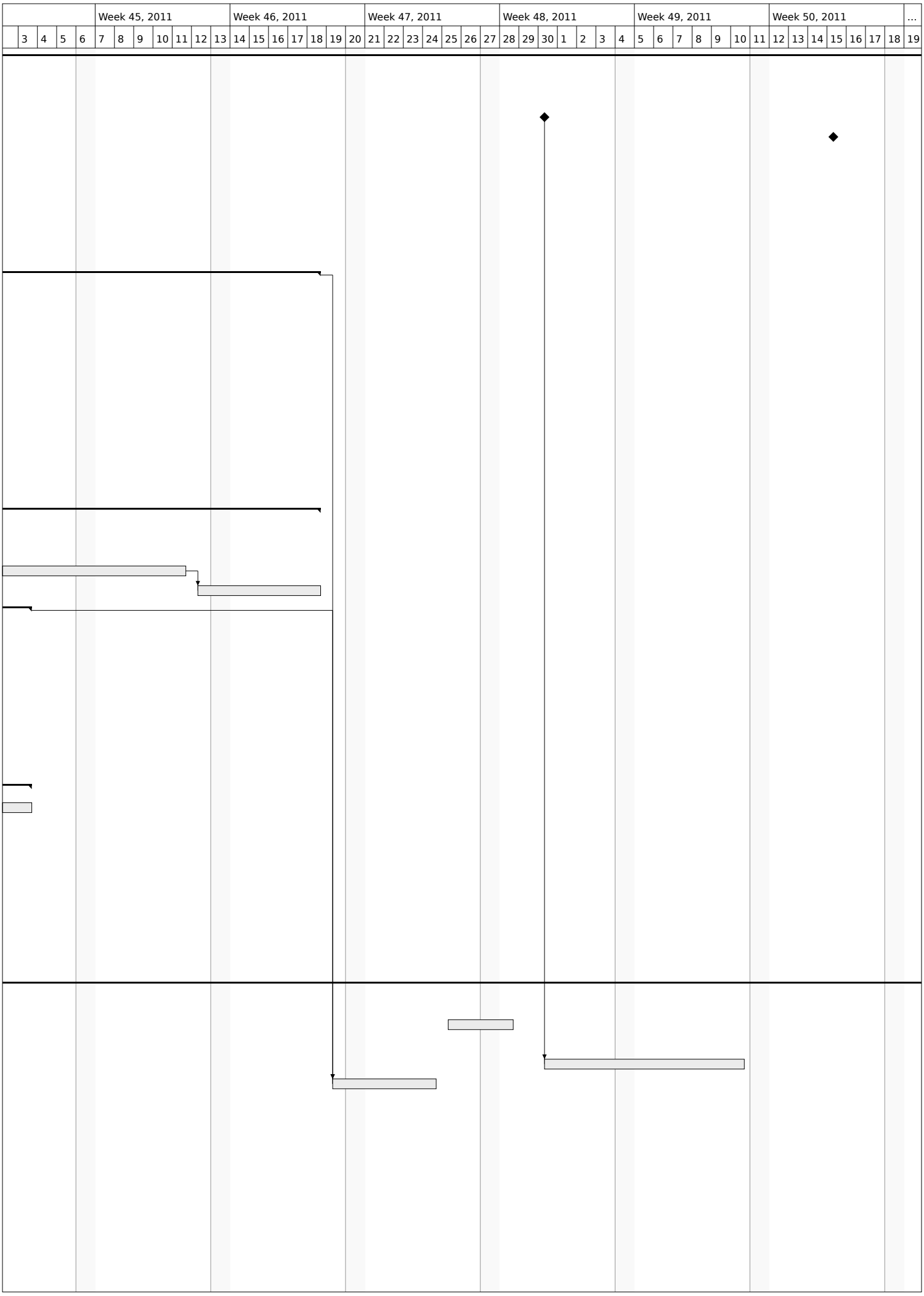
| Name | Work |
|---|---|
| **Deadlines** | |
| Opening lecture | |
| First progress seminar | |
| Second progress seminar | |
| Final report | |
| Final presentation | |
| **Acquire Equipment** | **20d** |
| Acquire camera | 5d |
| Acquire Schematic Parts | 5d |
| Acquire final payload controller | 5d |
| Acquire autopilot and basestation | 5d |
| **Payload Module** | **56d** |
| **Camera module communication** | **9d** |
| Prototype camera module communication | 6d |
| Payload controller <-> camera module communication | 3d |
| **Image Encoding and Transmission** | **23d** |
| **Basic Raw encoding/(JPEG?)** | **5d** |
| Payload controller implementation | 5d |
| **Custom (compressed) encoding** | **18d** |
| Matlab algorithm prototype | 10d |
| **Payload controller implementation** | **8d** |
| Compression algorithm implementation | 6d |
| Data breakdown and transmission | 2d |
| **Payload module construction** | **24d** |
| Payload breadboard prototype | 4d |
| Payload PCB design | 4d |
| Aquiring payload PCB | 10d |
| Payload PCB construction and debugging | 6d |
| **Image recieve/viewing software** | **19d** |
| **TCP/IP Basestation Communications** | **7d** |
| Basic dummy server communication | 4d |
| Basestation communications | 3d |
| **Decode Image** | **7d** |
| Basic image decoding | 2d |
| **Custom (decompression) decoding** | **5d** |
| Matlab algorithm | 2d |
| Working implementation | 3d |
| **UI** | **5d** |
| Functional user interface | 5d |
| **Integration** | **3d** |
| Payload controller to autopilot/base station | 3d |
| **Background Research** | **19d** |
| Camera selection | 3d |
| Payload controller (e.g. microcontroller/FPGA) selection | 4d |
| Communication protocols | 3d |
| Image processing/compression | 6d |
| Programming language | 3d |
| **Prepare presentation** | **10d** |
| Progress seminar 1 | 3d |
| Progress seminar 2 | 3d |
| Final presentation | 4d |
| Report Writing | 10d |
| Whole System Testing | 5d |

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Week 48, 2011
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Week 50, 2011
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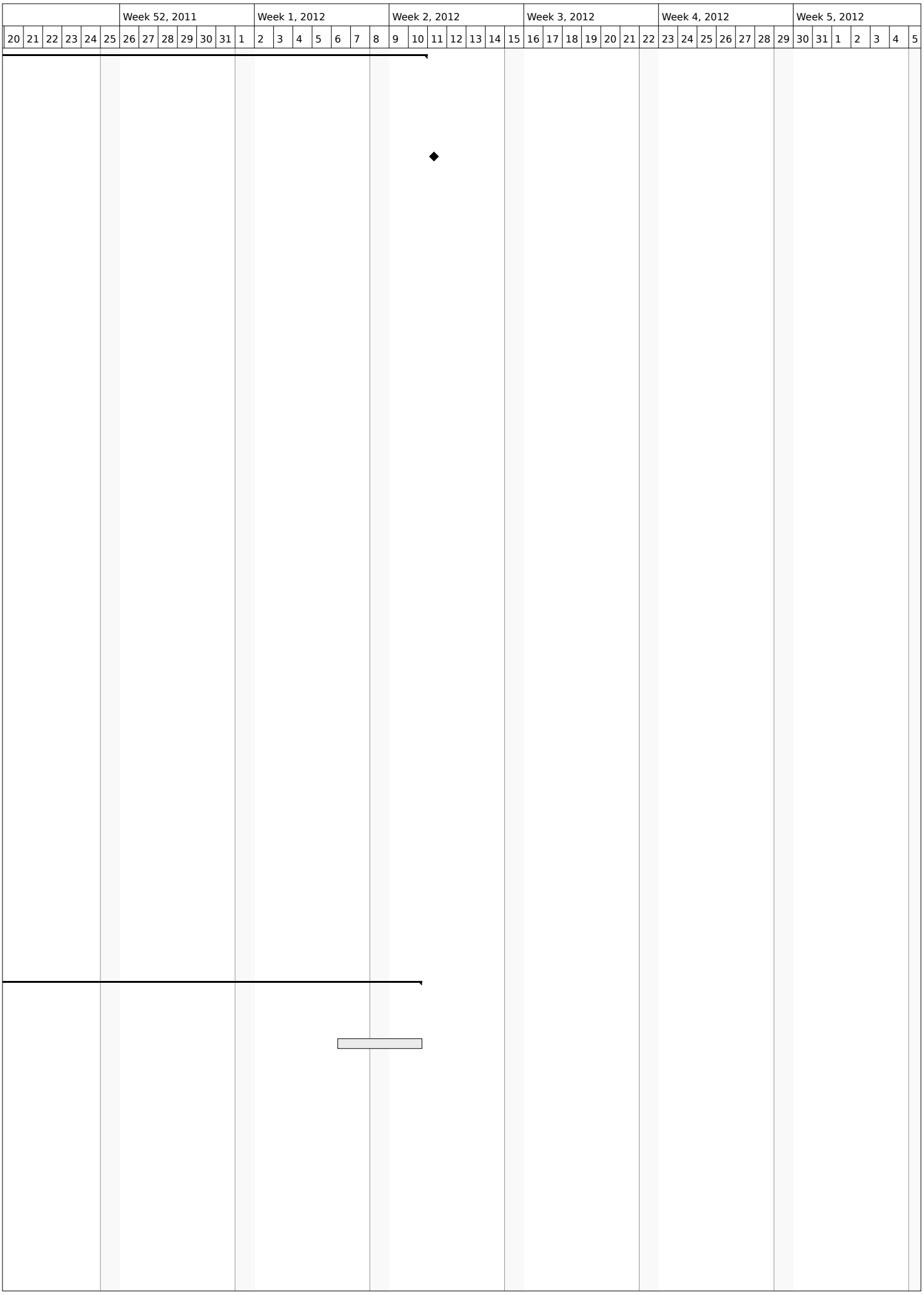
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Week 2, 2012
Week 3, 2012
Week 4, 2012
Week 5, 2012
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| WBS | Name | Start | Finish | Work | Duration | Slack | Cost | Assigned to | % Complete |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Deadlines** | **5 Oct** | **11 Jan** | | **84d** | | **0** | | 0 |
| 1.1 | Opening lecture | 5 Oct | 5 Oct | N/A | N/A | 84d | 0 | | 0 |
| 1.2 | First progress seminar | 26 Oct | 26 Oct | N/A | N/A | 66d | 0 | | 0 |
| 1.3 | Second progress seminar | 30 Nov | 30 Nov | N/A | N/A | 27d | 0 | | 0 |
| 1.4 | Final report | 15 Dec | 15 Dec | N/A | N/A | 23d | 0 | | 0 |
| 1.5 | Final presentation | 11 Jan | 11 Jan | N/A | N/A | | 0 | | 0 |
| 2 | **Acquire Equipment** | **5 Oct** | **21 Oct** | **20d** | **15d** | **69d** | **0** | | 0 |
| 2.1 | Acquire camera | 5 Oct | 10 Oct | 5d | 5d | 50d | 0 | | 0 |
| 2.2 | Acquire Schematic Parts | 5 Oct | 10 Oct | 5d | 5d | 50d | 0 | | 0 |
| 2.3 | Acquire final payload controller | 17 Oct | 21 Oct | 5d | 5d | 40d | 0 | | 0 |
| 2.4 | Acquire autopilot and basestation | 5 Oct | 10 Oct | 5d | 5d | 71d | 0 | | 0 |
| 3 | **Payload Module** | **5 Oct** | **18 Nov** | **56d** | **39d** | **40d** | **0** | | 0 |
| 3.1 | **Camera module communication** | **11 Oct** | **20 Oct** | **9d** | **9d** | **65d** | **0** | | 0 |
| 3.1.1 | Prototype camera module communication | 11 Oct | 17 Oct | 6d | 6d | 53d | 0 | | 0 |
| 3.1.2 | Payload controller <-> camera module communication | 18 Oct | 20 Oct | 3d | 3d | 53d | 0 | | 0 |
| 3.2 | **Image Encoding and Transmission** | **5 Oct** | **26 Oct** | **23d** | **19d** | **60d** | **0** | | 0 |
| 3.2.1 | **Basic Raw encoding/(JPEG?)** | **21 Oct** | **26 Oct** | **5d** | **5d** | **60d** | **0** | | 0 |
| 3.2.1.1 | Payload controller implementation | 21 Oct | 26 Oct | 5d | 5d | 53d | 0 | | 0 |
| 3.2.2 | **Custom (compressed) encoding** | **5 Oct** | **25 Oct** | **18d** | **18d** | **61d** | **0** | | 0 |
| 3.2.2.1 | Matlab algorithm prototype | 5 Oct | 15 Oct | 10d | 10d | 58d | 0 | | 0 |
| 3.2.2.2 | **Payload controller implementation** | **17 Oct** | **25 Oct** | **8d** | **8d** | **61d** | **0** | | 0 |
| 3.2.2.2.1 | Compression algorithm implementation | 17 Oct | 22 Oct | 6d | 6d | 58d | 0 | | 0 |
| 3.2.2.2.2 | Data breakdown and transmission | 24 Oct | 25 Oct | 2d | 2d | 58d | 0 | | 0 |
| 3.3 | **Payload module construction** | **22 Oct** | **18 Nov** | **24d** | **24d** | **40d** | **0** | | 0 |
| 3.3.1 | Payload breadboard prototype | 22 Oct | 26 Oct | 4d | 4d | 40d | 0 | | 0 |
| 3.3.2 | Payload PCB design | 27 Oct | 31 Oct | 4d | 4d | 41d | 0 | | 0 |
| 3.3.3 | Aquiring payload PCB | 1 Nov | 11 Nov | 10d | 10d | 40d | 0 | | 0 |
| 3.3.4 | Payload PCB construction and debugging | 12 Nov | 18 Nov | 6d | 6d | 40d | 0 | | 0 |
| 4 | **Image recieve/viewing software** | **5 Oct** | **3 Nov** | **19d** | **26d** | **53d** | **0** | | 0 |
| 4.1 | **TCP/IP Basestation Communications** | **5 Oct** | **13 Oct** | **7d** | **8d** | **71d** | **0** | | 0 |
| 4.1.1 | Basic dummy server communication | 5 Oct | 8 Oct | 4d | 4d | 75d | 0 | | 0 |
| 4.1.2 | Basestation communications | 11 Oct | 13 Oct | 3d | 3d | 71d | 0 | | 0 |
| 4.2 | **Decode Image** | **17 Oct** | **28 Oct** | **7d** | **11d** | **58d** | **0** | | 0 |
| 4.2.1 | Basic image decoding | 27 Oct | 28 Oct | 2d | 2d | 53d | 0 | | 0 |
| 4.2.2 | **Custom (decompression) decoding** | **17 Oct** | **28 Oct** | **5d** | **11d** | **58d** | **0** | | 0 |
| 4.2.2.1 | Matlab algorithm | 17 Oct | 18 Oct | 2d | 2d | 64d | 0 | | 0 |
| 4.2.2.2 | Working implementation | 26 Oct | 28 Oct | 3d | 3d | 58d | 0 | | 0 |
| 4.3 | **UI** | **29 Oct** | **3 Nov** | **5d** | **5d** | **53d** | **0** | | 0 |
| 4.3.1 | Functional user interface | 29 Oct | 3 Nov | 5d | 5d | 53d | 0 | | 0 |
| 5 | **Integration** | **27 Oct** | **29 Oct** | **3d** | **3d** | **62d** | **0** | | 0 |
| 5.1 | Payload controller to autopilot/base station | 27 Oct | 29 Oct | 3d | 3d | 62d | 0 | | 0 |
| 6 | **Background Research** | **5 Oct** | **15 Oct** | **19d** | **10d** | **74d** | **0** | | 0 |
| 6.1 | Camera selection | 5 Oct | 7 Oct | 3d | 3d | 81d | 0 | | 0 |
| 6.2 | Payload controller (e.g. microcontroller/FPGA) selection | 12 Oct | 15 Oct | 4d | 4d | 40d | 0 | | 0 |
| 6.3 | Communication protocols | 5 Oct | 7 Oct | 3d | 3d | 81d | 0 | | 0 |
| 6.4 | Image processing/compression | 5 Oct | 11 Oct | 6d | 6d | 40d | 0 | | 0 |
| 6.5 | Programming language | 5 Oct | 7 Oct | 3d | 3d | 81d | 0 | | 0 |
| 7 | **Prepare presentation** | **22 Oct** | **10 Jan** | **10d** | **69d** | | **0** | | 0 |
| 7.1 | Progress seminar 1 | 22 Oct | 25 Oct | 3d | 3d | 66d | 0 | | 0 |
| 7.2 | Progress seminar 2 | 25 Nov | 28 Nov | 3d | 3d | 37d | 0 | | 0 |
| 7.3 | Final presentation | 6 Jan | 10 Jan | 4d | 4d | | 0 | | 0 |
| 8 | Report Writing | 30 Nov | 10 Dec | 10d | 10d | 26d | 0 | | 0 |
| 9 | Whole System Testing | 19 Nov | 24 Nov | 5d | 5d | 40d | 0 | | 0 |