BI-WEEKLY STATUS REPORT

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| Subject: Visual Light Communication |  |
| Period Ending: 09/19/2018 |  |

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| ACTIVITIES COMPLETED THIS WEEK |
| **Completed Deliverables:**   * Created list of materials that needed to be ordered for VLC * Light bulb Socket * Non Dimmable Light Bulbs * Enhanced Photodiodes * Contact Relay * Solid State Relay * Created new github repository to store all documentation and code * Researched different communication based algorithms that could work well with VLC * Simple On-Off * Manchester * Frequency Based |

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| ACTIVITIES TO BE STARTED NEXT WEEK |
| * Build hardware for both VLC transmitter and receiver * Attempt to construct the transmitter hardware without cutting open the AC lightbulb * Run tests attempting to determine whether Arduino is suitable for VLC and whether we can correct the issue of undersampling from the last VLC prototype |

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| LONG TERM PROJECTS |
| * Determine whether Arduino is suitable for VLC * Build VLC transmitter and receiver hardware |

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| ISSUES FOR IMMEDIATE ATTENTION |
| * Waiting on VLC hardware materials to arrive before building prototype circuit for Arduino |