MEMS tunable polarization rotator for optical communication -Timeplan ### (1/5 ### (2/5 ### (3/5 ### (3/6 ### (3/7 ### (4/7 ### (5/5) ### (5/5) ### (5/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) ### (6/5) Duration (Days Priority WBS Tasks Start End 1/20/16 Initial Setup 1.1 High Setup plan 1/18/16 1/19/16 2 Days 100% 1 Days 100% 1.2 led Setup gitRepo 1/19/16 1/19/16 Med Setup latex environment 1 Days 100% 1/20/16 1.3 1/20/16 Literature Review **1/21/16** 2/12/16 Optical waveguides, waveguide 2.1 modes, dielectric waveguides 1/21/16 1/25/16 5 Days 0% Polarization in optical waveguides 1/26/16 1/27/16 2 Days 0% 2.2 2.3 Polarization components 1/28/16 1/29/16 2 Days 0% 2.4 Med BiWeekly report 1/29/16 1/29/16 1 Days 0% 2.5 Passive polarization rotators 2/01/16 2/02/16 2 Days 0% 2.6 Active polarization rotators 2/03/16 2/05/16 3 Days 0% 2/12/16 2.7 BiWeekly report 2/12/16 1 Days 0% 2.8 Current state of art 2/08/16 2/12/16 2 Days 0% 2.8.1 In optical fiber communications 2/08/16 2/09/16 In silicon photonics-based ones 2/10/16 2/12/16 3 Days Learn and design Simulation 2/26/16 Select simulation approach (Comsol, CST) 2/15/16 2/19/16 5 Days 3.2 Design use case 2/15/16 2/17/16 3 Days 0% 3.3 Run simulations 2/18/16 1 Days 1 Days 3.4 Interpret results 2/19/16 2/19/16 0% 3.5 Low Redesign and verify if required 2/22/16 2/26/16 5 Days 0% 3.6 BiWeekly report 2/26/16 2/26/16 1 Days 0% Fabrication 2<mark>/29/16</mark> 3/18/16 41 High Fabricate the design Med BiWeekly report 3/18/16 19 Days 0% 42 3/18/16 3/18/16 1 Days 0% 3/27/16 Vacation Easter Holidays 3/21/16 3/27/16 7 Days 0% 5.1 4/15/16 Measurement setup and analysis Verify if setup is ready 3/28/16 3/29/16 2 Days 0% 6.1 6.2 High Understand about the setup 3/30/16 4/01/16 3 Days 6.3 BiWeekly report 4/01/16 4/01/16 1 Days 0% 6.4 Take measurements 4/04/16 4/08/16 5 Days 0% High Analyze results 6.5 4/11/16 4/15/16 5 Days 0% BiWeekly report 4/15/16 4/15/16 1 Days 0% 6.6 Optimize Design **4/18/16** 6/19/16 Design optimization, fabrication and 7.1 measurement 4/18/16 6/03/16 47 Days 7.2 BiWeekly report 4/30/16 4/30/16 1 Days 0% 7.3 Med BiWeekly report 5/20/16 5/20/16 1 Days 0% Write Thesis Prepare Presentation 6/06/16 6/19/16 7.4 14 Days 0% Master Thesis opponent 6/20/16 6/28/16 Be an opponent in Master Thesis 6/20/16 6/24/16 8.1 5 Days 0% 8.2 Low Be present in 2 presentations 6/24/16 6/24/16 1 Days 0% Write conclusions/review for

6/28/16 6/28/16 1 Days 0%

opponent