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| # | student | Background | Grading Preferences | Interests | Team Assignment |
|  |  | **MCECSBOT PROJECTS** | 7 students |  | Help from:  Omar Mohsin  Mathias Sunardi |
| 1 | Tu Truong  [Tutruong89@gmail.com](mailto:Tutruong89@gmail.com) | Undergraduate embedded systems  Lego robot, gun turret  Automated validation for Intel, C, C++, ARM, scripting | Theory 30%  Programming 30%  Practical 40% | Transformer or interactive robot  Hw1 – evolve motions. She showed me the plan for arm. | **TEAM 1.**  **Robot Arm for MCECSBOT**  Continuation of Erin’s Project |
| 2 | Berrian Travis J | Undergraduate  Computer Engineering, Embedded Systems  ***Very mechanically inclined, many practical engineering skills***, pneumatics, welding, fabrication. |  | Arm Design, help with stage design for robot theatre. Does he work with Truong? | **TEAM 1.**  **Robot Arm for MCECSBOT**  Contact Mathias Sunardi |
| 3 | Adams Jesse  [Jjadams@pdx.edu](mailto:Jjadams@pdx.edu) | Graduate  Enjoys projects, does well.  171,102. 510, 520  RC car using Arduino, closed loop feedback. LED Cube  Robotic Club. Intel server. | Team,  33%  33%  33% | H1 Kalman filter | **TEAM 2.**  **Sonar and Kinect Navigation for MCECSBOT**  Continuation of Spring Project |
| 4 | Barrett Jeramy  [Jeramy.barrett@gmail.com](mailto:Jeramy.barrett@gmail.com) | Undergraduate  CS161,C  Works in a company software, Lego robots at Pacific University – 4 courses - ping pong ball navigation. Long experience with computers and hardware. Good grasp of mechanics and large electrical systems. | Team,  Theory 10%, programming 20%, application build 70% |  | **TEAM 2.**  **Sonar and Kinect Navigation for MCECSBOT**  Continuation of Spring Project |
| 5 | Barton Mitch  [Mitch\_barton@yahoo.com](mailto:Mitch_barton@yahoo.com) | Undergraduate  CS101,CA102, 371,372,585,586  BS in Physics. Much design experience digital analog. | Team,  Theory 30%, programming 20%, application build 50% |  | **TEAM 2.**  **Laser**  **Navigation for MCECSBOT**  Software - Continuation of Spring Project, Hardware new. Also connect head and integrate with body motions. |
| 6 | Lamb Phil  [pjl@pdx.edu](mailto:pjl@pdx.edu) | Undergraduate  C# software engineer for 4 years  Microprocessor based embedded systems | Team  Theory 30%  Programming 40%  Robot practical 30% | Navigation – laser/sonar  Industrial robotics  **H1-Particle Filter** | **TEAM 3.**  **Laser based navigation**  **For MCECSBOT**  Software - Continuation of Spring Project, Hardware new.contact Omar Mohsin |
| 7 | O’Connell Conor  cono@pdx.edu | Undergraduate  Computer engineering  C, C++, interfaces  OPSU 2010 ROV project | Tested on theory, work in group  40% theory, 40% programming, 20% robot design. | Sonar based navigation  Localization | **TEAM 3.**  **Laser based navigation**  **For MCECSBOT**  Software - Continuation of Spring Project, Hardware new. |
|  |  | **GUIDEBOT PROJECTS** | 6 students |  |  |
| 1 | Box Dave  [davidebx@gmail.com](mailto:davidebx@gmail.com) | Undergraduate  Capstone video tracking, 371,372,373,351,485,486  C programming, Arduino, ***Camera Gimbal object tracking system (captone)*** Watt measuring device | Team  Theory 25%  Programming 50%  Design 25% | H1 editor | **TEAM 4**  **GUIDEBOT DESIGN** Continuation of Spring Project.  Integrate head, arms and body/base of GuideBot. |
| 2 | Brams Dylan  [Dylan.brams@gmail.com](mailto:Dylan.brams@gmail.com) | Undergraduate  C, C++, operating systems, perl, Verilog, C#, ***ATMEGA design project,*** game programming, dynamic prediction algorithm  No bigger project experience, | team | LEADER  GuideBOt mechanical or database for MCECSBOT?  H1 related to robot assigned. Write motion editor. | **TEAM 4**  **GUIDEBOT DESIGN** Continuation of Spring Project |
| 3 | Walker Uriae  [uwalker@pdx.edu](mailto:uwalker@pdx.edu) | Undergraduate C, C++, C161, CS162, 163  No robot experience  Verilog, 371,372, built computers | Team or alone  Theory 20%  Programming 40%  Robot building 40% | Interactive Motion Programmer.  *H1 Evolve motion, evolve interaction* | **TEAM 4**  **GUIDE BOT DESIGN** Continuation of Spring Project |
| 4 | Bernard Richard  [Rbernard@pdx.edu](mailto:Rbernard@pdx.edu) | Undergraduate  CS333 operating systems, C, C++, Java, Arduino. PCI USB linuz driver, voice driver RS232  Parallax BoeBot, line following, embedded pneumatic controller for a gun | Team  Theory 35%  Programming 30%  Practical 35%  Hardware/software |  | **TEAM 5**  **NAVIGATION FOR GUIDEBOT**  Continuation of Spring Project |
| 5 | Qedan Yusuf  [Yusuf9191@gmail.com](mailto:Yusuf9191@gmail.com) | Undergraduate  CS161,CS162, CS163, 333, ECE102, data structures, games FIRST FPGA, accelerometer hardware software, analog | Team  Theory 33% Programming 33% robot building 33% |  | **TEAM 5**  **NAVIGATION FOR GUIDEBOT**  Continuation of Spring Project |
| 6 | Saadoun Omar  [saadoun@pdx.edu](mailto:saadoun@pdx.edu) | Undergraduate  Lego, FRC, C, C++, 371,372,373,171,351, Large mechanical robot for FIRST |  |  | GuideBot Mechanical Design and basic motions, interactions  ARM design. Possible Robot Vision? This project is yet not clear. Alone? Vision? Motions? Dancing? Interaction? |
|  |  | **VARIOUS** | **11 students** |  |  |
| 1 | Bradon Kanyid  [bkanyid@pdx.edu](mailto:bkanyid@pdx.edu) | Undergraduate  Computer Engineering,  CS163, 201,333,494  IRC bot for URL database logging, in python/sq lite. Ported emulator from PC to a portable embedded system. Many other small projects in C, ***15 years experience in C.*** | FPGA, Embedded systems, Machine Learning, ***LISP dialect, likes theory***  ***25 theory, 50 software, 25 robot design.*** | H1-inverse kinematics for robotarm. | **Magellan Competition.** |
| 2 | Clark Chris  [chrisjclark@gmail.com](mailto:chrisjclark@gmail.com) | Undergraduate  Computer Engineering  C,C++,Python  Good programmer,  mechanical  , hardware software,  Arduino | 25% theory,  25 % programming, 50% practical | AI, ML, Mechanics, Kinematics, Motion | **Magellan Competition.** |
| 3 | Tricker Tyler  [tntricker@gmail.com](mailto:tntricker@gmail.com) | Undergraduate  C, C#, Python, Java, Lisp, Haskell, Matlab  Arm, Atmel microcontroller, protected radio networks, spectrum analysis, 371,372,373 | Theory 20%  Software 60%  Robot 20% | Signal analysis, concurrent systems, closed loop systems, distributed processing, dynamic applications, pathfinding inverse kinematics, heterogeneous systems, group theory, calculus | **Magellan Competition.** |
| 4 | Croos Merian  [mxc@rentrak.com](mailto:mxc@rentrak.com) | Graduate PHD  Extensive experience in software, C, C++, C#, Perl. | Prefers alone  Team OK  50% programming  50% robot building | Anything robotics  Home automation Agricultural robots  Vision based system such as tomato picker which can be deployed in home gardens or Project assigned by Perkowski | **Robot Navigation for Agriculture** |
| 5 | Engstrom Michael  [engstrom@pdx.edu](mailto:engstrom@pdx.edu) | Graduate  SOC, Embedded, VHDL  Virtual line following robot, ***counting robot hand Spring 2012***, self-leveling platform | Work alone  Homework 1 = ? | Robot motion, environment-based decision+behavior,FPGA programming, Servo control, Video output, virtual robot | **TEAM 6**  **HANDSHAKING ROBOT**  Which robot? Which hand? What sensors? |
| 6 | Peterson Jason  [Jason.peterson03@gmail.com](mailto:Jason.peterson03@gmail.com) | Undergraduate  C# database tool design  C++, C, Python, Java, Perl. | Theory 20%  Programming 30%  Building 50% | Kinect vision for facial recognition,  Change to new project? | **TEAM 6**  **HANDSHAKING ROBOT** |
| 7 | Goetz Andy  [agoetz@pdx.edu](mailto:agoetz@pdx.edu) | CE  CS161,163,333,494, maze solver Dijkstra, Atmel several | 50 % programming,  25% theory  25% robot building  H1 assigned related to project. | Face programming  Localization  Framework for voting. GOOD idea. Vice President for artistic design | **TEAM 7**  **EVOLUTIONARY ART** |
| 8 | Huffman Camille  [camilleh@cecs.pdx.edu](mailto:camilleh@cecs.pdx.edu) | Undergraduate  Computer Engineering  C,C++,operating systems, 333, CS202  ***Quadcopter concurrency validation*** | Team  33% each  H1 related assigned. | Art generation | **TEAM 7**  **EVOLUTIONARY ART** |
| 9 | Riedl Kevin  [KRield@cecs.pdx.edu](mailto:KRield@cecs.pdx.edu) | IRC python bot, 371,372,373, 333, 495,202,201 Physics, Chemistry biology  485  Quadrotor at PSU, fixing things, electronics and computers  Numerous Arduino | Theory 20% Software 60% robot design 20% | Motion, vision, mechanics, construction, programming  Manager, leader. H1-GA for their task | **TEAM 7**  **EVOLUTIONARY ART** |
| 10 | Jain Punya  [Punya10@gmail.com](mailto:Punya10@gmail.com) | Undergraduate  Computer Science  C,C++, Java, Python, Matlab, html, scripting.  Game design, Scripting in Intel, ***much industrial experience in software***  ***Lego robotics 7th internationally***, organic chemistry, music (opera singer) biology. FPGA microcontrollers, ECG, pulse oxymeter. | Work alone, team is also OK.  30%  70% software | Would like to make a robot sing opera using Fourier analysis of signals. Opera singer, knows theory. | **Individual Project:** Robot Opera Singer  From vowels |
| 11 | S T | Undergraduate  C, C++, Matlab, Java, circuit design  medication dispension systems | Individual project Theory 45% Programming 45% robot building 10% | Image processing  Genetic algorithm  Embedded software and hardware, | **TEAM 8**  **KINEMATICS ANIMALS** |
|  |  | **ROBOT THEATRE** | **12 students** |  |  |
| **1** | Wolfe Devin  [devin@wolfepac.net](mailto:devin@wolfepac.net) | Undergraduate, Computer Engineering  351 Verilog,371,372,373,333,fsm projects, PCB design.  C, C++, C161, CS162, 163, Java, Python.  Radio, digital counters, FPGA, Verilog, linked lists, tree sorting, search programs, speech interface, Linux drivers, | Team leader  33%Progr,33% theory, 33% mechanical design |  | **TEAM 9**  **ROBOT THEATRE .**  **NIELS BOHR ROBOT**  **Aditya Bhutada Software to be used** |
| **2** | Ali T. Alali  [Ata088@hotmail.com](mailto:Ata088@hotmail.com) | Arduino,  Matlab, C good, C++ moderate  Control System design 451  371, 441, 410 power 461 communication  No big project experience | Team  50% robot design  20% theory  30% software | Automatic and remotely controlled robots, Iphone control, ipAD, Speech interaction with robot | **TEAM 9**  **ROBOT THEATRE .**  **NIELS BOHR ROBOT** |
| **3** | Dang Khiem  Mail2khiem@gmail.com | Undergraduate  Computer Engineering  Some C,C++, simple 372 projects. FPGA, ***PC design***. ARM assembly. No robot experience. ***Build speaker systems.*** | team | 20%theory,30% software, 50 % robot design | **TEAM 10**  **LITTLE ROBOT STAGE AND PERFORMANCE**  **KHR-1** |
| 4 | Duran Randy  [rduran@pdx.edu](mailto:rduran@pdx.edu) | Undergraduate  Consumer electronics, electronics technician, C, C++, Java, Matlab, microcontrollers. | 50% software, 50% practical design | GuideBot | **TEAM 10**  **LITTLE ROBOT STAGE AND PERFORMANCE**  **KHR-1** |
| 5 | Prince |  |  |  | **TEAM 11**  **LITTLE ROBOT STAGE AND PERFORMANCE ISOBOT and others, lights** |
| 6 | Omar Alattar  907 574 672  [omaralattar@frontier.com](mailto:omaralattar@frontier.com) | I would like to do a robot theater project with a greater emphasis on programming and maybe a little theory (10%?). I would like to do very little if any mechanical robotics.  I was also wondering about getting access to the robot theater lab, a student Monday was saying something about emailing him to get access but I wanted to make sure this was correct before doing so, can you verify |  | team  Vision?  Control?  FPAA , memristor? Advanced control? | **TEAM 11**  **LITTLE ROBOT STAGE AND PERFORMANCE**  **ISOBOT and others, lights**  No mechanical, only software and sound/light control |
| 7 | Matthew Branstetter  Matthew.branstetter@hotmail.com | 161,163,351, Verilog, some arduino C++ | Theory 20%, programming 20%, robot design 60% |  | **TEAM 11**  **LITTLE ROBOT STAGE AND PERFORMANCE**  **Dancing hexapods.**  No mechanical, only software and sound/light control |
| 8 | Hanks Cody  [cody@byterule.com](mailto:cody@byterule.com) | Undergraduate  C#, repair PCs, some robot work. | 33% each, robot doll walks, talks, etc |  | **TEAM 12.**  **ROBOT THEATRE.**  **Albert Einstein**  **ROBOT** |
| 9 | Tejashri Chaudhari  [Tdc2@pdx.edu](mailto:Tdc2@pdx.edu) |  |  |  | **TEAM 12.**  **Albert Einstein** |
| 10 | Yang Shi | Some FPGA experience, C, Verilog | Programming 50%  Robot Building 30%  Theory 20% | Motion generation  Interaction | **TEAM 13.**  **ROBOT THEATRE.**  **MARJE CURIE ROBOT** |
| 11 | Brawn Maisee  [maisee@pdx.edu](mailto:maisee@pdx.edu) | Undergraduate  Capstone video tracking, 371,372,373,351,485,486  C programming, Arduino, ***Camera Gimbal object tracking system (captone)*** Watt measuring device | alone. 33% for each | Intelligent robotics, machine learning, HRI programming. | **TEAM 14**  **Robot Arm Design for robot theatre**  ***Individual Project*** This arm can be potentially used later on on Marie Curie robot |
| 13 | Rami Alshafi |  |  |  | **TEAM 15**  **Kinect for blind , Individual project.** |
| 14 | Amin Acmassian | No robot experience, C, C++, MS Comp Engn. |  | No image processing, no sensors | **TEAM 16**  **Some research**  **No image processing**  **NEEDS DISCUSSION.** |
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