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| # | student | Background | Grading Preferences | Interests | Team Assignment |
|  |  | **MCECSBOT PROJECTS** | 7 students |  | Help from:Omar MohsinMathias Sunardi |
|  1 | Tu TruongTutruong89@gmail.com | Undergraduate embedded systemsLego robot, gun turretAutomated validation for Intel, C, C++, ARM, scripting | Theory 30%Programming 30%Practical 40% | Transformer or interactive robotHw1 – 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 JesseJjadams@pdx.edu | Graduate Enjoys projects, does well.171,102. 510, 520RC car using Arduino, closed loop feedback. LED CubeRobotic Club. Intel server. | Team,33%33%33% | H1 Kalman filter | **TEAM 2.****Sonar and Kinect Navigation for MCECSBOT**Continuation of Spring Project |
| 4 | Barrett JeramyJeramy.barrett@gmail.com | Undergraduate CS161,CWorks 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 MitchMitch\_barton@yahoo.com | Undergraduate CS101,CA102, 371,372,585,586BS 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 Philpjl@pdx.edu | Undergraduate C# software engineer for 4 yearsMicroprocessor based embedded systems | TeamTheory 30%Programming 40%Robot practical 30% | Navigation – laser/sonarIndustrial robotics**H1-Particle Filter** | **TEAM 3.****Laser based navigation****For MCECSBOT**Software - Continuation of Spring Project, Hardware new.contact Omar Mohsin |
| 7 | O’Connell Conorcono@pdx.edu | Undergraduate Computer engineeringC, C++, interfacesOPSU 2010 ROV project | Tested on theory, work in group40% theory, 40% programming, 20% robot design. | Sonar based navigationLocalization | **TEAM 3.****Laser based navigation****For MCECSBOT** Software - Continuation of Spring Project, Hardware new. |
|  |  | **GUIDEBOT PROJECTS** | 6 students |  |  |
| 1 | Box Davedavidebx@gmail.com | Undergraduate Capstone video tracking, 371,372,373,351,485,486C programming, Arduino, ***Camera Gimbal object tracking system (captone)*** Watt measuring device | TeamTheory 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 DylanDylan.brams@gmail.com | Undergraduate C, C++, operating systems, perl, Verilog, C#, ***ATMEGA design project,*** game programming, dynamic prediction algorithmNo bigger project experience, | team | LEADERGuideBOt mechanical or database for MCECSBOT?H1 related to robot assigned. Write motion editor. | **TEAM 4****GUIDEBOT DESIGN** Continuation of Spring Project |
| 3 | Walker Uriaeuwalker@pdx.edu | Undergraduate C, C++, C161, CS162, 163No robot experienceVerilog, 371,372, built computers | Team or aloneTheory 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 RichardRbernard@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 | TeamTheory 35%Programming 30%Practical 35%Hardware/software |  | **TEAM 5****NAVIGATION FOR GUIDEBOT** Continuation of Spring Project |
| 5 | Qedan YusufYusuf9191@gmail.com | Undergraduate CS161,CS162, CS163, 333, ECE102, data structures, games FIRST FPGA, accelerometer hardware software, analog | TeamTheory 33% Programming 33% robot building 33% |  | **TEAM 5****NAVIGATION FOR GUIDEBOT** Continuation of Spring Project |
| 6 | Saadoun Omarsaadoun@pdx.edu | Undergraduate Lego, FRC, C, C++, 371,372,373,171,351, Large mechanical robot for FIRST |  |  | GuideBot Mechanical Design and basic motions, interactionsARM design. Possible Robot Vision? This project is yet not clear. Alone? Vision? Motions? Dancing? Interaction? |
|  |  | **VARIOUS** | **11 students** |  |  |
| 1 | Bradon Kanyidbkanyid@pdx.edu | Undergraduate Computer Engineering,CS163, 201,333,494IRC 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 Chrischrisjclark@gmail.com | Undergraduate Computer EngineeringC,C++,PythonGood programmer,mechanical, hardware software,Arduino | 25% theory, 25 % programming, 50% practical | AI, ML, Mechanics, Kinematics, Motion | **Magellan Competition.** |
| 3 | Tricker Tylertntricker@gmail.com | Undergraduate C, C#, Python, Java, Lisp, Haskell, MatlabArm, 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 Merianmxc@rentrak.com | Graduate PHDExtensive experience in software, C, C++, C#, Perl. | Prefers aloneTeam OK50% programming50% robot building | Anything roboticsHome automationAgricultural robotsVision based system such as tomato picker which can be deployed in home gardens or Project assigned by Perkowski | **Robot Navigation for Agriculture** |
| 5 | Engstrom Michaelengstrom@pdx.edu | GraduateSOC, Embedded, VHDLVirtual line following robot, ***counting robot hand Spring 2012***, self-leveling platform | Work aloneHomework 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 JasonJason.peterson03@gmail.com | Undergraduate C# database tool designC++, 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 Andyagoetz@pdx.edu | CECS161,163,333,494, maze solver Dijkstra, Atmel several | 50 % programming,25% theory25% robot buildingH1 assigned related to project. | Face programmingLocalizationFramework for voting. GOOD idea. Vice President for artistic design | **TEAM 7****EVOLUTIONARY ART** |
| 8 | Huffman Camillecamilleh@cecs.pdx.edu | Undergraduate Computer EngineeringC,C++,operating systems, 333, CS202***Quadcopter concurrency validation*** | Team33% eachH1 related assigned. | Art generation | **TEAM 7****EVOLUTIONARY ART** |
| 9 | Riedl KevinKRield@cecs.pdx.edu | IRC python bot, 371,372,373, 333, 495,202,201 Physics, Chemistry biology485Quadrotor at PSU, fixing things, electronics and computersNumerous Arduino | Theory 20% Software 60% robot design 20% | Motion, vision, mechanics, construction, programmingManager, leader. H1-GA for their task | **TEAM 7****EVOLUTIONARY ART** |
| 10 | Jain PunyaPunya10@gmail.com | Undergraduate Computer ScienceC,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 SingerFrom vowels |
| 11 |  S T | Undergraduate C, C++, Matlab, Java, circuit designmedication dispension systems | Individual project Theory 45% Programming 45% robot building 10% | Image processingGenetic algorithmEmbedded software and hardware,  | **TEAM 8****KINEMATICS ANIMALS** |
|  |  | **ROBOT THEATRE** | **12 students** |  |  |
| **1** | Wolfe Devindevin@wolfepac.net | Undergraduate, Computer Engineering351 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 leader33%Progr,33% theory, 33% mechanical design |  | **TEAM 9****ROBOT THEATRE .****NIELS BOHR ROBOT****Aditya Bhutada Software to be used** |
| **2** | Ali T. AlaliAta088@hotmail.com | Arduino,Matlab, C good, C++ moderateControl System design 451371, 441, 410 power 461 communicationNo big project experience | Team50% robot design20% theory30% software | Automatic and remotely controlled robots, Iphone control, ipAD, Speech interaction with robot | **TEAM 9****ROBOT THEATRE .****NIELS BOHR ROBOT** |
| **3** | Dang KhiemMail2khiem@gmail.com | Undergraduate Computer EngineeringSome 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 Randyrduran@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 Alattar907 574 672omaralattar@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 |  | teamVision?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 BranstetterMatthew.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 Codycody@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 ChaudhariTdc2@pdx.edu |  |  |  | **TEAM 12.****Albert Einstein** |
| 10 | Yang Shi | Some FPGA experience, C, Verilog | Programming 50%Robot Building 30%Theory 20% | Motion generationInteraction | **TEAM 13.****ROBOT THEATRE.****MARJE CURIE ROBOT** |
| 11 | Brawn Maiseemaisee@pdx.edu | Undergraduate Capstone video tracking, 371,372,373,351,485,486C 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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