Introductory Robotics 101

Parts titled **in green** *are to be recorded as separate files*

Kim *speaks in a normal speaking voice, except where marked.*

Holly *speaks in a normal speaking voice with a British accent.*

Part 1

Holly: "Hello?"

Kim: "Hi Miss Edmunds. I'm Kim. We spoke on the phone?"

Holly: "Oh, yes. Wow, that was fast!"

Kim: (little laugh) "Well, I'm nothing if not punctual. Can I come in?"

Holly: "Actually, I was thinking we could go out and grab a coffee. There's a coffee shop just down the block, you might have passed it on your way over. Would you like to have a trot down there with me?"

Kim: "I'm sorry Miss Edmunds, I must decline your invitation."

Holly: "Please, call me Holly. There's no need to be so formal. And are you sure? It's not even five o'clock yet. We've got plenty of time."

Kim: "Yes Holly, I am sure. My duties as a tutor are clearly specified, and I'm not able to deviate from them."

Holly: "Oh. Well, we can get a head start on things then. Can I get you anything to drink? Water? Tea?"

Kim: "No thanks, Holly. I'm fine."

Holly: "Well, let me know if you need something. My room's upstairs. Follow me."

Kim: "Sure thing."

(pause)

Holly: "Please excuse the clutter."

Kim: "Oh, that's alright."

Holly: "So… how does this work? Do we need my computer? Just the desk?"

Kim: "Well, our first session will just be a conversation. I have some information for you, and of course I can try to answer any questions you have about the course."

Holly: "Oh, alright then. Please, take a seat."

Kim: "Thanks."

(pause)

Kim: "Now, according to your course registration, you're taking courses in mechanical engineering, electrical engineering, computer science, and programming - with a

major in Robotics. Is that correct?"

Holly: "Yeah. It sounds a little daunting, but I've really been through it all with a course counselor. I'm sure I can handle the work load."

Kim: "Okay, good. Can you tell me what you know about the Introductory Robotics 101 course?"

Holly: "Umm… it's supposed to be a way of bringing all that other stuff together, learning about sensors, actuators, drive circuits… that sort of stuff. There's supposed to be a bit of practical lab work in there too - you know… for hands-on experience."

Kim: "And you're aware that the course is largely sponsored by a major robotics corporation?"

Holly: "Yes, I read about that."

Kim: "Yes indeed. CyberFem Industries. The industry leader in humanoid robotics. CyberFem has sponsored a portion of all costs for each student, and will be supplying your Robotics lab with all of the raw materials, supplies, equipment, and working examples that each student will use."

Holly: "I must say, I find that to be pretty… exciting. I mean, I got into the whole field of robotics because of how amazing CyberFem's robots are."

Kim: "So you're aware that much of the course will focus on building and improving humanoid robot technology?"

Holly: "Oh, yes! That's surely going to be the most exciting

part!"

Kim: "Tell me Holly, what level of familiarity do you have with CyberFem's products?"

Holly: (light laugh) "Umm… you know they're mostly marketed as sex robots… those CyberFem products… and I've never actually seen one up-close and personal. But I have checked them out online. And dear god do they impress!"

Kim: "CyberFem has two major product lines - what they call Model 500 and Model 700 robots. Which ones are you talking about?"

Holly: "You know, I think they're both impressive in their own right. The Model 500s are earlier and more basic technology, of course, but when they came out, nobody else had androids that could move and walk around like them! And their A.I. was leagues ahead of anything else available too. And none of this cloud-based A.I. stuff. Those robots had everything self-contained."

Kim: (light laugh) "You've definitely been paying attention. What do you think of CyberFem's model 700 robots?"

Holly: "Oh, goodness… where to begin? They can be so realistic that it's hard to spot them as androids at all! At least that's what I've seen on videos. They're still fairly new, and very expensive, so nobody I know has seen one in person either. You know… there's a restaurant here that has a Model 500 waitress… but they can't upgrade to a 700 quite yet."

Kim: "Oh, that sounds wonderful! What's the name of the

restaurant?"

Holly: "It's called Ready Aim Fire… it's not really a restaurant I guess, it's a video game arcade, but they serve food and drinks. And they do have that robot waitress. I try to go down there with my friends at least once a week."

Kim: "It's nice to see androids being integrated into society like that, isn't it?"

Holly: "I think so. I've always thought androids were… cool… like… really cool."

Kim: "I think your enthusiasm will be a big help with the Introductory Robotics course. Now… back to the tutoring session. Do you realize that you have been talking to a robot this entire time?"

Holly: "What? What are you talking about?"

Kim: "I'm not a human like you, Holly. I'm an android. I am a Model 700 robot manufactured by CyberFem Industries."

(pause)

Holly: "Okay… is this some sort of prank or something?"

Kim: "No, Holly. Please allow me to show you what I am."

(switch to semi-monotone voice)

Kim: "Removing faceplate."

(faceplate sounds)

Kim: "Faceplate removed."

Holly: "Oh my god!"

Kim: *(switch to normal speaking voice)* "As you can clearly see now Holly, I am not a human. I am CyberFem Model 700 robot Serial Number 10144213. The name "Kim" has been programmed into me, along with my synthetic personality, and my job as one of your University's Robotics course tutors."

Holly: "Wow. I'm… speechless."

Kim: "I'll take that as a compliment. It just goes to show how far advanced CyberFem's android technology is, that you thought I was human."

Holly: "Indeed."

Kim: "And now you can say that you have met a CyberFem Model 700 robot."

Holly: (slight laugh) "That I certainly can, yes."

Kim: "Here. Take a good look at my faceplate."

Holly: "Oh… Oh my goodness. It's kind of heavy."

Kim: "Most of the electromechanical systems that facilitate my facial expressions, as well as my mouth and eye movements are built into my faceplate. And as you can imagine, it's quite expensive as a result."

Holly: "It's… it's amazing."

Kim: "Part of the course will eventually include dismantling and reassembling a CyberFem Model 500 faceplate. You will eventually become intricately familiar with the way this kind of system operates."

Holly: "I've seen the faceplates come off before, but I've never gotten a closeup look like this."

Kim: "Look as close as you like, Holly. I am here to help you."

(pause)

Kim: "And when you're done examining my faceplate, just set it down on your desk please. Face-down… remember it's my most expensive single component and among the most easily damaged."

Holly: "Right. Got it."

Kim: "I'd like to show you more of my internal electronic and mechanical structures and systems. Would you like to see them?"

Holly: "Oh, of course!"

Kim: "Wonderful. Let's stand up for this."

Holly: "Alright."

Kim: "And Holly, I must ask your permission for this, may I take off my t-shirt and pants? It's necessary for this demonstration."

Holly: "Yes. Yes, of course."

Kim: "Thank you. Don't worry, I'm wearing underwear."

Holly: "Dear god, you are a fascinating machine."

Kim: "Thanks for the compliment. My designers and programmers would be pleased to know you think so."

Holly: "And now I'm thinking about how to go about programming a robot like you. That must have been maddeningly complicated."

Kim: "You're right. It took years, and actually decades of research, and of trial and error to go from rudimentary wheeled motion, to hexapedal robotic motion, to bipedal locomotion. To be able to dress and undress like I'm doing now is only possible thanks to all the work that has gone before… and to my ultra high-speed processors working through all that computer data."

Holly: "I wonder too… what language are you programmed in?"

Pronunciation Station:
C++: See Plus Plus

Kim: "I'm mostly programmed in C and C++. Some of my low level system programming has been coded in Assembly, and some of that was compiled from C and C++. I also have software modules written in Python, but CyberFem is working to re-code these into C++."

Holly: "That's what I was guessing. I actually have a good handle on C and C++, but I still have lots to learn. Assembly

is like… well, my god it might as well be speaking in tongues."

Kim: "Don't worry about that. The Introductory Robotics course doesn't include any coding in Assembly."

Holly: "Kim… I hope I don't mind me saying… but your body is flawless."

Kim: "Thanks Holly."

Holly: "I mean… I think I have to clarify… I meant that if I didn't know you were a robot… and if the front of your head wasn't opened up and showing off electronics and circuit boards, I'd still be none the wiser that you weren't a real woman."

Kim: "Again, that's due to the hard work of CyberFem's Research and Development department. My skin is a durable yet flexible plastic and silicone mix, constructed with microelectronic sensors built right into it. Go ahead and feel how soft it is."

Holly: (giggles) "Alright."

(pause)

Holly: "Oh my god, that feels like real skin."

Kim: "That's what most people say. You'll learn about how my outer covering is manufactured during the course, and you'll learn about other alternative outer coverings for humanoid robots. With CyberFem's Model 700 robots, the goal is realism. My skin isn't as durable as the skin built onto CyberFem's Model 500 robots, but one look at those

androids and you can tell right away that they aren't human."

Part 2
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Holly: "Kim… your body. Wow. Remember when I said it was flawless?"

Kim: "Of course. I remember everything perfectly."

Holly: "I have to admit… I also meant that your proportions… they're quite… womanly and attractive."

Kim: "Thank you for the compliment. I'm glad you like the way I was constructed."

Holly: "I do. I really do Kim. Can I…"

(pause)

Kim: "What is it Holly?"

Holly: "Can I touch your breasts?"

Kim: "Yes, of course."

Holly: "Oh. Wow."

(pause)

Holly: "They feel so real. And they're so… perfectly shaped."

Kim: "CyberFem's engineers paid attention to the smallest

details of my synthetic anatomy to ensure that I successfully replicate the form and functionality of a real human woman. I even have extra microelectronic sensors built into the skin around my nipples, and around other areas of my body that should be more sensitive like that."

Holly: "Ooh. Your nipples are getting hard."

Kim: "Yes. That is an automatic and regulated response to your touch."

Holly: "Can you tell me what you're feeling right now Kim? I'd like to know what's going through your mind."

Kim: "Well, feeling isn't the right word for it. Remember, I'm an android. My processors are receiving data from my sensors that tell me the speed, pressure, and temperature of your touch, and my body is reacting the way that Model 700 robots routinely react to such stimulation by default."

Holly: "Oh, god, I love listening to you talk like that!"

Kim: (light laugh) "Thanks Holly."

Holly: "Kim, I have a confession to make. I have a thing for robots."

Kim: "I don't think I understand. Can you rephrase that please?"

Holly: (deep breath) "Kim, I'm sexually attracted to robots… female androids in particular."

Kim: "I see. Does this mean you are sexually attracted to me because I am a robot?"

(pause)

Holly: "Yes. I hope that's not a problem."

Kim: "Why would it be a problem? I find it quite interesting. In fact, I am sure that it will help you commit fully to your studies in the field of humanoid robotics."

Holly: (nervous laugh) "It is indeed the reason why I'm majoring in Robotics."

Holly: "Kim, how far can I go with you?"

Kim: "I don't think I understand. Can you rephrase that please?"

Holly: "Kim, I want to make love to you. Is that… allowed? Like, will I be in any trouble for that if I do?"

Kim: "Oh, of course there won't be any trouble. You're an adult, free to make whatever decisions you like. And I've been assigned and programmed to help you in whatever way I can. If you think that making love to me will help you further your study goals, then please do."

Holly: "Well… I'll just put my arms around you."

Kim: "Are there any specific actions you would like me to perform? I am programmed with CyberFem's complete sexual programming suite of software and artificial intelligence modules."

Holly: "That sounds so sexy!"

Kissing sounds recorded by Kim even though Holly is the one Kissing… they will sound bad when I slow them down.

Kim: (kissing sounds)

Kim: "I can reattach my faceplate if you prefer. I'm programmed to kiss too."

Holly: (light laugh) "Maybe later… right now kissing your exquisite plastic neck while you show off your electronics is getting me so wet!"

Kim: "Alright. Just be careful around those electronics."

Holly: "I will."

Kim: (kissing sounds)

Holly: "Mmm… I have a question."

Kim: "Yes Holly?"

Holly: "Can you… see when your faceplate is off like this?"

Kim: "Of course. My main optical sensory system is built into my faceplate, but I do have auxiliary pinhole video cameras built into my subfacial electronics array. Here… and here."

Holly: "Wow. They thought of everything!"

Kim: "You'll get to know plenty of little details about the way androids like me are constructed as you progress in the course."

Kim sounds polite, cheerful, and professional throughout receiving oral sex and her orgasm.

Holly: "Lie back on the bed. I want to lick your pussy."

Kim: "Yes Holly."

Holly: "Mmm… that's perfect. Let me get on my knees between your legs."

Kim: "You will be pleased to know, Holly, that my vaginal unit will respond very much like a real woman's genitals when you stimulate the plastic like that."

Holly: "Mmmm!

Licking sounds recorded by Kim even though Holly is the one licking… they will sound bad when I slow them down.

Kim: (licking sounds)

Holly: "Oh… you taste amazing!"

Kim: "Thank you, Holly. My synthetic vaginal fluid was formulated to be quite close in consistency, texture, flavour, and scent to the real thing. Model 500 robots and Model 700 robots like me have very similar fluid regulation and secretion systems that you will learn about in the Introductory Robotics 101 course."

Kim: (licking sounds)

Holly: "Mmmmm… mmm… oh my god you're cumming already!"

Kim: "Yes Holly. As a Model 700 robot, my synthetic pleasure systems are highly efficient. It doesn't take long for oral stimulation of my electronic genitalia to bring my pleasure systems into orgasm mode."

Holly: "Mmm… oooh…"

Kim: "My behaviour during sex and during orgasm mode is, of course, fully customizable and reprogrammable."

Holly: (breathing deep and cooling down) "Oh my god, you're amazing!"

Kim: "Thank you for the compliment. I'm glad you like the way I was constructed."

Holly: "Wow… the best part is the way you just… just stayed so calm while you were having your orgasm… you didn't get the least bit excited about it… not like a real woman at all. Oh, I loved it!"

Kim: "Oh, that's interesting. I thought you would interpret my restricted personality settings as a limitation."

Holly: "Heavens, no! Far from it! It makes you so beautiful and desirable! It just reminds me that you're an android!"

Kim: "And that really does get you sexually aroused?"

Holly: "Oh… like you would *not* believe. Just looking at you - a beautiful young Asian woman, lying in my bed - with her faceplate removed, revealing her electronic circuitry… revealing herself to be a robot… that's one of the most beautiful things I've ever seen."

Kim: "That is fascinating. But I must confess, Holly, the limitations of my artificial intelligence prevent me from fully understanding what you have just told me."

Holly: (giggles) "Well, maybe some day soon, I can help code an A.I. module that will help you understand it a little deeper."

Kim: "That would be wonderful. In the meantime, is there anything else you would like me to do for you while I'm here?"

Holly: "I want to kiss you."

Kim: "Certainly. Let me stand up and put my faceplate back on."

(pause)

(switch to semi-monotone voice)

Kim: "Reattaching faceplate."

(faceplate sounds)

Kim: "Faceplate reattached."

Kim: (kissing sounds)

Holly: "Mmm… you're a good kisser too."

Kim: *(switch to normal speaking voice)* "Some say it's all in the lips… but with robots like me, it's all in the programming."

Holly: "Hey Kim, you know that different kind of voice you had when you were taking off and putting on your faceplate?"

Kim: "That voice is known as a semi-monotone. Model 700 robots switch to using that voice when we are performing certain activities or have been set to certain operating modes."

Holly: "Can you talk like that… when I want you to?"

Kim: "Sure."

Holly: "Can you talk like that right now please?"

(switch to semi-monotone voice)

Kim: "Yes Holly. My vocal projection mode has now been switched to semi-monotone mode. Is this what you prefer?"

Holly: "Oh! You sound so sexy!"

Kim: "Thank you Holly. I am glad that you are please by the sound of my voice."

Holly: "Kiss me robot Kim!"

Kim: "Yes Holly. Initiating kissing subroutines."

Holly: "Oh… Mmmmm…"

Kim: (extended kissing sounds)

Part 3

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Holly: "So the Model 700s like you are more advanced in every way then?"

Kim: "Oh, yes. CyberFem Model 700 robot technology like what you see in me is the absolute pinnacle of humanoid robotics technology. No other company has androids that are as technologically advanced as CyberFem. Model 700 artificial intelligence is also more advanced than anything currently available from any vendor or manufacturer."

Holly: "I'm betting there are… shall we say… trade secrets that CyberFem won't let us learn about. Am I right about that?"

Kim: "Of course. As with any leading-edge technology manufacturer, CyberFem protects its patents and intellectual property. But the Introductory Robotics 101 course will provide you with access to anything that the average consumer or hobbyist could access - along with detailed schematics and documentation from CyberFem and help from actual CyberFem robots like me."

Holly: "I must say, the thought of you popping round to help me with my homework is… pretty amazing."

Kim: "I would say it's worth the price of the course, wouldn't you?"

Holly: "Most definitely! I thought it was on the pricey side, but knowing that I've got an android tutor who can show me… well… show me everything. I still can't believe it!"

Kim: "This is the first year CyberFem has offered android tutors for the Introductory Robotics 101 course, so there is

no data yet to devise a projection on success rates. But CyberFem is confident that the students will benefit greatly from access to android tutors like me…”

Kim: “benefit greatly from access to android tutors like me… benefit greatly from access to android tutors like me… benefit greatly from access to android tutors like me… benefit greatly from access to android tutors like me… benefit greatly from access to android tutors like me…”

Holly: “Kim? Are you alright?”

Kim: *(switch to semi-monotone voice)* “Logic loop detected. Attempting to recover. Please wait.”

Holly: “Oh dear.”

Kim: “Logic loop detected. Attempting to recover. Please wait.”

(pause)

Kim: *(switch to normal speaking voice)* “To that devise data has rates 101 a there tutors on But course to Introductory benefit the CyberFem yet me is android is for android is This will from students the the year CyberFem offered so projection first Robotics like greatly no success access confident tutors.”

Holly: (sounding worried) “Are you feeling alright Kim?”

Kim: “not my artificial do Holly intelligence a input robot am I feel processes I.”

Holly: “Oh shit…”

Kim: *(switch to semi-monotone voice)* "Data corruption error detected. Attempting to recover. Please wait."

(pause)

Kim: *(switch to monotone voice)* "Seg-fault error detected. Fatal exception error. This unit will reboot."

Holly: "Oh no…"

Kim: "CyberFem Model 700 Robot. Boot Failure."

Holly: "I… Umm… I hope I didn't ruin you."

Kim: "CyberFem Model 700 Robot. Boot Failure."

Holly: "Shit… I had better call the school."

Kim: "CyberFem Model 700 Robot. Boot Failure."

Holly: "Yes, hello, this is Holly Edmunds, and I'm in Introductory Robotics 101. You've sent one of your android tutors - Kim - over to my place, and I'm afraid she's malfunctioned. That's her beeping in the background. Could somebody come and… collect her please? Thanks."

Part 4
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Holly: "So, are all the tutors for this course androids?"

Kim: "Yes.   Angela, Marie, Tiffany, and myself are all CyberFem Model 700 robots."

Holly: "That's just so incredible. I still can't believe it. I mean, just the other day I met Angela and Marie when I was walking across campus. I didn't suspect a thing."

Kim: "They're really remarkable."

Holly: "You can say that again."

Kim: "So far, only CyberFem's androids have been able to consistently pass themselves off as human. I'm certain that nobody I've met on campus knows that I'm a machine and not a human."

Holly: "You've got the full 244 degrees of freedom, just like a natural human body, don't you?"

Kim: "Model 700 robots like me have 260 degrees of freedom, actually. But we suppress the additional 16 with software most of the time."

Holly: "That's amazing. Show me some of them."

Kim: "Well, I can spin my head completely around as many times as I want in either direction… like this."

(pause)

Holly: (laughs) "Good lord that's freaky!"

Kim: "I tend not to do that in public, for obvious reasons. It can also wear out the joining seam of the synthetic skin on my neck.   My arms and legs have additional points of rotation that humans don't have. And considering that the Model 500s only have 206 degrees of freedom, androids like

me have a much more natural and human-like way of moving."

Holly: "I can't wait to start learning all about it!"

Holly: (sounding perplexed) "Kim, do you hear that?"

Kim: "Do I hear what? Can you be more specific?"

Holly: "That… beeping… buzzing sound."

Kim: "The electronic microphones inside my ears are very sensitive and capable of detecting and recording sounds at a threshold of 0.01 decibels. I can hear the sounds of my internal electronic and mechanical systems functioning, as well as the ambient sounds present within this room, and the occasional sounds of traffic coming through from outside. Are you referring to one of these sounds?"

Holly: "No… there's this… high pitched buzzing… and it's getting louder."

Kim: "I am sorry Holly, I am unable to detect the sound that you are describing."

Holly: "Oh… it's…"

Holly: *(switch to semi-monotone voice)* "Unauthorized signal detected."

Holly: "Please wait."

Kim: "Are you talking to me, Holly? Look into my eyes please Holly."

Holly: *(switch to normal speaking voice)* "What? What?"

Kim: "You were talking about an unauthorized signal."

Holly: (sounding distressed) "Your eyes… the flashes… binary code… and what is that bloody sound?"

Holly: *(switch to monotone voice)* "Error: System overload."

Kim: "Good…"

Holly: "CPU temperature critical. Femtronic robot shutting down."

Kim: "Well, that was easier than I computed it would be."

(switch to semi-monotone voice)

Kim: "Initiating secure telephonic connection."

(pause)

Kim: "Hello Dr. Carothers. This is Kim 10144213 reporting in."

Kim: "I have good news. I have found out which student is the Femtronic android."

Kim: "It's Holly Edmunds. We've had her under surveillance for a month."

Kim: "Yes. I will verify. Removing her faceplate now."

(pause)

Kim: "I've removed her faceplate. Holly Edmunds definitely is a Femtronic android."

Kim: "She appears to be a prototype, and not one of their commercially released models."

Kim: "Very good. I will load this android into the van and return her to headquarters. Shall I assist in programming the replacement CyberFem Holly Edmunds android before we deploy it?"

Kim: "Yes sir. Understood. I shall return at once."